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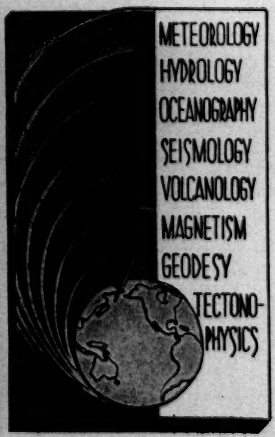
Directory

American Geophysical Union



THE AMERICAN GEOPHYSICAL UNION
of the
NATIONAL ACADEMY OF SCIENCES
NATIONAL RESEARCH COUNCIL

AMERICAN GEOPHYSICAL UNION

1515 Massachusetts Avenue, N. W.
Washington 5, D. C.

PUBLICATIONS

(See pages 134–136 of this Directory for further information)

The Monthly Journal of Geophysical Research—This is the chief scientific publication of the American Geophysical Union, issued monthly. Nonmember subscriptions are $20.00 for the calendar year 1961, $4.00—$6.00 per individual copy; $25.00 for the calendar year 1962, approximately $4.00 per individual copy.

The Quarterly Transactions—The quarterly *Transactions* of the American Geophysical Union is a medium for less technical treatment of geophysical material of interest to scientists and technologists, science teachers, and the lay reader. In addition, the *Transactions* carries reviews and other word of selected important geophysical books and other publications, notes and personalia, and information concerning the activities of the American Geophysical Union including minutes of meetings. The occasional directory of members will also appear in the *Transactions*. Non-member subscriptions to the *Transactions* are $4.00 for the calendar year 1961, $1.25 per individual copy (except directory issue, $2.25); $5.00 for 1962, $1.50 per individual copy.

Geophysical Monograph Series—These are occasional publications based largely on symposia and conferences in which the subject matter relates to a particular field or project. The series may include papers too long for the *Journal*.

Izvestiya, Geophysics Series—English edition of the *Bulletin, Academy of Sciences, USSR*. Complete volume available for 1957, 1958, 1959, and 1960, with production continuing into 1961, at $25.00 per volume. Each number, $5.00.

Geodezia i Kartografiya, USSR—Complete volume available for 1959, 1960, with production Continuing into 1961, at $25.00 per volume. Two-issue copies available at $7.50.

Trudy—Numbers 37–40 have been translated to date. Information concerning each volume and tables of contents may be obtained from consultants Bureau Enterprises, Inc., 227 W. 17th St., New York 11, New York. (Members of AGU are allowed 12½ per cent discount on purchases of Trudy monographs.)

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PREFACE

This list of members, corrected for changes received to August 1, 1961, supplants the list dated August 1, 1959, published in the September 1959 issue of the *Transactions*. Following the alphabetical lists of individual and supporting members is a geographical list which, for the states and possessions of the United States, is by states and cities; for Canada by cities, and otherwise by countries. The third portion of the Directory is a list of the Committees of AGU and its Sections. At the end of the Directory is a list of publications of AGU.

In the main alphabetical and the geographical lists, the code letters following the names are the usual ones for the Section affiliations, as follows:

(a) Geodesy
(b) Seismology
(c) Meteorology
(d) Geomagnetism and Aeronomy
(e) Oceanography
(f) Volcanology, Geochemistry, and Petrology
(g) Hydrology
(h) Tectonophysics

List of Abbreviations:

NASA, National Aeronautics and Space Administration
NBS, National Bureau of Standards
SCS, Soil Conservation Service
TVA, Tennessee Valley Authority
USC&GS, United States Coast and Geodetic Survey
USDA, United States Department of Agriculture
USGS, United States Geological Survey
USOM, United States Overseas Mission
USWB, United States Weather Bureau

Geophysics has received great impetus under the influence of the highly successful International Geophysical Year, which has served to place emphasis not only on the fact that the Earth as a whole is one great laboratory but also on the importance of the environment of the Earth in space.

The various fields of geophysics had considerable development as individual sciences before the occurrence of the integrating influence of geophysics. Even today we find a tendency towards separate development in many fields, overlooking or disregarding the relationships of each field to other facets of geophysics. AGU is a Union exercising force to counteract the centrifugal forces that are present.

The postwar General Assemblies of the International Union of Geodesy and Geophysics (the last of which was held in Helsinki in 1960; the Thirteenth to be held in Berkeley in 1963) emphasized what the International Geophysical Year has shown—the necessity of the integration of the outlook upon the problems of the Earth. The International Geophysical Year did much to develop new facets in geophysics, perhaps most notably in aeronomy and in the Antarctic region, but substantially also in other fields where synoptic observations are essential to studying and understanding the problems of the Earth. The development of the techniques of rocketry and the satellites has done much to facilitate the study of the Earth's environment. Outstanding results have been the detection of the Van Allen radiation belts and other phenomena.

It is believed that there are many other well-qualified workers in various aspects of geophysics who are not now members of AGU and who should be members to the mutual advantage of AGU and the individuals. Through such membership AGU may attain its greatest usefulness. It is to the advantage and benefit of the present members as well that these be brought into membership. Each member is requested to do what he can to bring his colleagues into membership. The geographical section of this Directory should be especially useful in helping to determine whom to approach in order that the geophysical sciences and the AGU may continue to grow and more nearly fulfill the aims with respect to the broad field of geophysics, to science as a whole, and to the welfare of Man. To facilitate new memberships, an application form is inserted at the end of this Directory.

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September 1961

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Alphabetical List of Members

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FAIRBANKS
J. H. Borjeson (c)
M. C. Brewer (bd)
W. G. Duggin (c)
T. C. Mathews (bcgh)

GUSTAVUS
K. A. Youmans (g)

JUNEAU
J. M. Childers (cg)
R. W. Wilke (g)

SITKA
J. H. Baden (bcd)
M. L. Cleven (bde)

SPENARD
J. W. Zoller (cf)

UNALASKA
A. E. Jones (bfg)

ARIZONA

BISBEE
K. M. Barnett (c)
G. E. Daniels (cg)
C. E. Erickson (cg)

BUCKEYE
T. E. A. van Hylckama (g)

DOUGLAS
R. N. Schnepfe (ad)
J. S. Sumner (abdfh)

FLAGSTAFF
H. E. Brown (g)
C. M. Skau (cg)

FORT HUACHUCA
A. Miller (c)
W. D. Ohmstede (ce)

GRAND CANYON
M. E. Kofford (fgh)

KINGMAN
I. B. Gray (f)

PHOENIX
B. J. Bermes (abdeg)
D. R. Dawdy (g)
R. H. Frische (abcdfgh)
L. R. Jurwitz (c)
R. L. Kistler (c)
O. E. Leppanen (g)
P. M. Lewis (ag)
H. O. Rydstrom (bcfg)
S. L. Shaw (c)
H. E. Skibitzke (ag)
S. F. Turner (g)
H. W. Welch, Jr.

PRESCOTT
P. E. Atkinson (cde)

SCOTTSDALE
W. Kam (g)
H. J. Thiele (g)

SIERRA VISTA
J. F. Appleby (cg)
R. C. Becker (edg)

TEMPE
C. G. Evensen (abcdefgh)
P. A. Ingebo (g)
M. D. Lowenstein (ed)
C. B. Moore (f)
L. E. Myers (cg)
R. J. Reginato (g)
L. R. Rich (g)
P. F. Ruff (ceg)
C. H. M. van Bavel (g)

TOMBSTONE
K. G. Renard (cg)

TUCSON
F. S. Anderson (g)
J. C. Balla (bfh)
L. J. Battan (c)
S. G. Brown (eg)
M. E. Cooley (fg)
R. C. Culler (eg)
P. E. Damon (bdh)
L. E. Davis (bdfg)
K. J. DeCook (g)
L. W. Douglas (bc)
R. K. Prevert (cg)
L. C. Halpenny (g)
W. F. Hardt (g)
J. W. Harshbarger (g)
C. N. Hodges (c)
P. W. Johnson (fg)
A. R. Kassander, Jr. (bg)
K. A. Kawar (g)
R. V. Keppel (cg)
G. P. Kuiper (abcdh)
W. C. Lacy (bdfh)
J. W. Lanctot (cd)
G. E. Maddox (g)
E. J. McCullough, Jr. (bdh)
J. E. McDonald (c)
M. A. Melton (g)
H. J. Miles (eg)
D. E. Peterson (bcg)
J. J. Riley (cg)
P. B. Rowe (cg)
H. C. Schwalen (cg)
W. D. Sellers (e)
H. Silva (g)
P. C. Sinclair (c)
T. L. Smiley (cfg)
D. G. Smith (g)
G. E. P. Smith (g)
L. A. Smitherman (bd)
C. O. Stanberry (g)
J. M. Tromble (g)
H. Waddell (d)
N. D. White (g)

YUMA
A. G. Hely (g)
G. H. Hughes (cg)
C. C. McDonald (g)

ARKANSAS

BLYTHEVILLE AFB
D. C. Jensen (e)

EL DORADO
C. J. Hoke (abg)

FAYETTEVILLE
L. M. Fry (f)
H. G. Jeffery (g)
P. K. Kuroda (efg)
L. E. Mack (g)
R. E. Phillips (cg)

FORT SMITH
E. R. Rose (bfgh)
J. L. Saunders (g)

LITTLE ROCK
M. S. Bedinger (cfg)
H. C. Getty (cg)
H. N. Halberg (g)
E. B. Madden (g)
J. H. McHughs (cg)
J. E. Miller (g)
J. W. Moses (cg)
M. S. Petersen (g)
J. C. Pyle (g)
J. E. Reed (befgh)

MAGNOLIA
G. H. Hayfield (efg)

NORTH LITTLE ROCK
O. B. Yaeger (g)

STUTTGART
R. G. Kazmann (g)

CALIFORNIA

ALAMEDA
D. R. Patch (e)

ALBANY
L. E. Borgman (c)
A. A. R. Zohdy (bdg)

ALHAMBRA
H. C. Troxell (gh)

ALTADENA
S. E. Blewett (c)
K. E. Hunter (bdh)
W. C. Kellogg (cd)
P. B. MacCready, Jr. (eg)
L. S. Pearce (abcd)
R. A. Peterson (g)
M. A. Wolf (ceg)

ANAHEIM
N. L. Hurley (bdh)
L. W. Kidd (e)

ARCADIA
R. C. Crooke (e)
A. L. Himelhoch (g)
G. Melickian (bfgh)

ARCATA
J. A. Gast (e)

ARLINGTON
P. D. Williams (d)

ATHERTON
D. G. Willis (abdgh)

ATWATER
A. R. Clark (ce)

AZUSA
A. G. Keene (efg)
F. B. Millett, Jr. (abdh)
H. N. Opland (bg)

BAKERSFIELD
W. T. Balch (eg)
D. Baron (g)
J. S. Bigelow (h)
E. S. Bliss (g)
B. J. Claborn (g)
J. G. Cole (bdegh)
J. E. Groom (abcdefgh)
W. C. Kuhs (g)
M. R. Louke (b)
N. A. MacGillivray (g)
J. C. Manning (g)
C. H. Williams (g)
J. Zimmerman, Jr. (bf)

BEAUMONT
R. J. Markson (ed)

BELLFLOWER
A. G. Walker, Jr. (f)

BELMONT
H. E. Root (eg)

BERKELEY
F. Adams (g)
D. Alter (c)
J. Amorocho (eg)
H. W. Anderson (cg)
K. A. Anderson (d)
J. E. Andre (g)
C. D. Anger (cde)
F. A. F. Berry (be)
F. B. Blanchard (g)
G. B. Bodman (g)
L. N. Brown (g)
R. R. Brown (d)
P. Byerly (bh)
C. W. Chesterman (fh)
L. E. Cunningham (cd)
R. G. Currie (bd)
P. R. Day (g)
A. J. Dragt (d)
H. A. Einstein (g)
O. A. El-Ghamry (g)
D. S. Evans (d)
R. J. Frankel (ceg)
C. M. Gilbert (efg)
N. E. Goldstein (d)
J. A. Harder (g)
S. F. Harding (g)
G. S. Hilton (fg)
N. E. A. Hinds (befg)
T. R. Jewell (cd)
J. W. Johnson (eg)
F. S. Jory (d)
G. Kalkanis (ceg)
P. F. Keim (g)
J. E. Kesaeli (cefg)
J. B. Leighly (eg)
P. Lieber (bch)
L. B. Loeb (cd)
W. C. Lowdermilk (egh)
C. W. Mansfield (cg)
E. M. Markowitz (ceg)
D. P. Marsh (d)
W. W. McLaughlin (g)
C. Meyer (abdf)
D. H. Miller (eg)
D. B. Nash (dfgh)
G. T. Orlob (g)

E. A. Pearson (eg)
R. W. Powell (g)
J. H. Reynolds (f)
E. C. Roelof (d)
E. R. Rowe (eg)
A. S. Ryall, Jr. (bd)
C. E. Sagan (cd)
F. C. Scobey (g)
M. A. Selim (bfg)
S. Silver (d)
J. D. Sinclair (eg)
R. E. Skjei (ce)
L. S. Spaulding (ag)
R. E. Storie (g)
D. Tocher (abefh)
D. K. Todd (ceg)
F. T. Turcotte (befh)
F. J. Turner (h)
J. Verhoogen (bdfh)
J. R. Wallis (g)
S. H. Ward (d)
K. M. Watson (d)
J. M. Wilcox (d)
H. Williams (efh)
J. A. Yore (g)

BEVERLY HILLS
C. Aston (abd)
R. E. Horner (ac)
T. H. Leith (dh)
A. Weir, Jr. (ef)

BIG SUR
G. G. Healey (a)

BUENA PARK
R. N. Hathaway (acdegh)

BURBANK
G. F. Anderson (deg)
E. Colton (bcdeh)
W. V. Kielhorn (e)
L. Lamore
G. G. Lill (abedefgh)
Lockheed Aircraft Corp.
J. M. Malville (d)
C. H. Von Kenschitzki (d)

BURLINGAME
R. C. Counts, Jr. (c)
K. Kaplan (e)

CAMPBELL
J. H. Snyder (g)

CANOGA PARK
J. E. Bekins (ed)
F. H. Clark (acd)
J. C. Flint (abe)
R. A. Hubach (d)
J. R. Roach (d)

CARMICHAEL
F. C. Craig (g)
C. G. Gunnerson (eg)
D. D. McNealy (g)

CHICO
N. Goldstein (abe)

CHINA LAKE
E. V. Ashburn (ede)
J. G. Moore (ed)
P. K. Odencrantz (ede)
P. Saint-Amand (abdh)
P. M. Wennekens (e)

CITRUS HEIGHTS
J. D. Goodridge (eg)

CLAREMONT
A. B. Focke (bcde)
J. S. Lambert (dh)
D. B. McIntyre (bh)
W. J. Miller (befh)
J. S. Shelton (befgh)

CLOVERDALE
G. Dewart (f)

CONCORD
J. D. Carter (a)
S. A. Fowler (dfh)

CORONA
V. E. Hildebrand (de)
A. W. Walters (abcd)

CORONA DEL MAR
R. W. Waniek (acd)

COSTA MESA
G. A. Gibson (ed)

COVINA
R. P. Quitzau (abde)
R. T. Williams (c)
E. A. Withers (g)

CULVER CITY
W. F. Garber (ceg)
Hughes Aircraft Co.
R. L. Sax (bcd)
C. H. Wilcox

DAVIS
M. Abu-Zied (g)
D. B. Beard (d)
N. S. Benes (c)
F. A. Brooks (e)
W. H. Brutsaert (g)
R. H. Burgy (g)
T. V. Crawford (eg)
L. D. Doneen (g)
M. Fireman (g)
A. H. Hendrickson (g)
C. F. Kelly (eg)
J. N. Luthin (eg)
W. D. McMillan (g)
D. R. Nielsen (g)
V. H. Scott (g)
J. H. Snyder (g)
F. J. Veihmeyer (eg)

DEL MAR
W. R. Holleman (ae)
J. H. Sanford (g)

DOWNEY
L. K. Cappellari (bcd)

EDWARDS
J. L. Yates (e)

EL CAJON
J. Kahl (ce)

EL CENTRO
J. D. Hess (g)

EL CERRITO
C. A. Davidson (ag)
E. D. Kane (e)
F. D. Masch, Jr. (g)

EL SEGUNDO
D. D. Elliott (d)
R. M. Friedman (d)
H. A. Lang (ab)

ENCINITAS
M. C. Chittenden (b)

ENCINO
L. K. Acheson, Jr. (d)
F. D. Voris (ed)

FRESNO
E. Brewer (g)
T. J. Henderson (eg)
C. H. Hobe (abg)
R. C. Husbands (eg)
C. E. Johnson (g)
H. Karrer (g)
L. Nickerson (g)
L. Schiff (g)
T. O. Smallwood (g)
C. H. Sorter (bcg)
C. L. Walton (g)

FULLERTON
C. E. Kaempen (acdfg)
R. E. Stevenson (e)

GARDENA
G. Buto (b)
C. E. Imel (eg)

GLENDALE
M. Bookman (g)
G. L. Brown (bde)
D. B. Heaney (b)
H. E. Hedger (cg)
J. E. Jones (g)
W. E. Kahl (g)
H. B. Lynch (g)
F. E. Schoonover (bg)
E. R. Stauffacher (eg)

GLENDORA
E. L. Hamilton (eg)
J. S. Krammes (eg)
R. M. Rice (g)

GOLETA
P. H. Barrett (d)
F. A. Berry (c)
R. V. Fisher (efh)
S. R. Frank (c)

GRANADA HILLS
R. O. Castle (bh)
F. F. Hall, Jr. (ed)
R. J. Havens (a)
G. E. Moreton (d)
J. T. Williams (c)

HANFORD
C. H. Anderson, Jr. (g)

HAWTHORNE
E. C. Hartman (edg)

HAYWARD
R. S. Gomes (g)
W. Smith (g)

HERMOSA BEACH
C. B. Leovy (e)

HUNTINGTON BEACH
J. Law (gh)

INGLEWOOD
J. R. Stipp (g)
E. J. Zielbauer (g)

KENSINGTON
J. B. Orr (f)

KENTFIELD
J. S. Cotton (egh)

LA CANADA
W. J. Carroll, Jr. (cg)
A. L. Kistler (ceg)

LA CRESCENTA
R. L. Newburn, Jr. (d)

LAFAYETTE
F. L. Hotes (eg)
J. E. Taylor (g)

LAGUNA BEACH
I. H. Blifford, Jr. (cf)
L. de Witte (bdh)

LA HABRA
F. G. Blake, Jr. (bdh)
P. E. Byerly (bdeh)
California Research Corp.
W. T. Holser (fh)
W. C. Knudsen (bd)
J. F. Mann, Jr. (g)
E. H. Poindexter (fgh)
R. W. Rex (bcdfgh)
H. J. Richgels (abd)
N. A. Riley (egh)
R. Runge (bd)
R. D. Tooley (abh)

LA HONDA
A. E. True (e)

LA JOLLA
W. Allen, Jr. (adefh)
R. S. Arthur (ce)
G. E. Backus (de)
E. B. Bennett (e)
E. H. Bramhall (bcdh)
T. J. Chow (eg)
C. S. Cox (e)
K. H. Drummond (c)
B. B. Dunne, Jr. (e)
T. R. Folsom (e)
T. D. Foster (beh)
J. D. Frautschy (aeg)
W. R. Gayman (ef)
E. Gerjuoy (be)
E. D. Goldberg (ae)
A. E. S. Green (d)
R. A. Haubrick (abh)
D. L. Inman (eg)
H. M. Iyer (bce)
J. H. Jones (bce)
D. P. Kharkar (f)
J. A. Knauss (e)
D. C. Krause (fh)
J. C. Larsen (abeh)
G. F. McEwen (ceg)
H. W. Menard, Jr. (abdefh)
E. H. Munk (beh)
C. B. Murty (ce)
R. P. Phillips (bd)
R. W. Raitt (abceh)
N. W. Rakestraw (eg)
J. L. Reid, Jr. (e)
R. R. Revelle (cefgh)
M. K. Robinson (e)
G. I. Roden (e)
P. Rudnick (e)
M. B. Schaefer (e)
D. R. Schink (e)
U. Schmucker (d)
F. P. Shepard (befh)
G. G. Shor, Jr. (beh)
F. P. Snodgrass (e)
V. Vacquier (abcd)
W. G. Van Dorn (e)
H. H. Veeh (defh)
L. S. Waterman (cef)

LAKE HUGHES
O. R. Rudder (c)

LAKEWOOD
W. M. Cady (fh)
R. A. Edwards (bde)

LA MESA
T. B. Smyth (bc)

LA MIRADA
V. Vanni (eg)
G. F. Welch (abceg)

LA PUENTE
R. O. Baughman (bfh)

LAWNDALE
R. A. Sigua (cd)
G. L. Vajda (dh)

LIVERMORE
W. M. Adams (bh)
D. C. Allen (bc)
I. Y. P. Borg (h)
N. Jaffe (bdefgh)
J. Killeen (d)
J. B. Knox (eg)
R. E. Lingenfelter (d)
M. P. Nakada (d)
H. M. Mark (cd)
G. C. Werth (bde)
J. P. Wesley (d)

LOMITA
J. C. Alter (eg)

LOMPOC
J. W. Mixsell (eg)
P. R. Nixon (eg)

LONG BEACH
F. R. Biard (bdefh)
W. L. Burnham (g)
A. L. Ehrreich (f)
J. C. Fry (be)
W. A. Kelly (dfgh)
W. L. Knight (bdeh)
D. H. McKillop (g)
F. F. Mead (abeg)
W. R. Moyle, Jr. (bg)
C. G. Sudduth (eg)
D. W. Terlinden (c)
J. E. Weir, Jr. (g)

LOS ALTOS
J. W. Boyd (d)
R. M. Endlich (c)
W. B. Hanson (d)
M. A. Hesalit (d)
P. L. Magill (abcdefgh)
C. R. McClure, Jr. (g)
R. L. Nevin (g)
K. K. Parks (e)
R. J. Schmelzer (cd)
N. H. Smith (d)
J. R. Spreiter (acde)
V. I. Stevens (d)
J. F. Vedder (de)
A. O. Waananen (g)
S. H. Williston (d)

LOS ALTOS HILLS
M. I. Green (d)
R. Smelt (ad)

LOS ANGELES
L. H. Adams (bdfh)
Aerospace Corp.
I. R. Ahrnsbee (a)
P. D. Arthur (e)
H. P. Bailey (c)
J. R. Ballif (cd)
E. W. Banios (acde)
E. J. Barlow (cde)
R. A. Becker
J. A. B. Bjerknes (c)
H. F. Blaney (g)
E. B. Brown (ade)
R. S. Brown (fg)
N. Buras (g)
M. F. Burke (eg)
W. D. Burton (abcdefgh)
S. S. Butler (g)
F. A. Camp (g)
N. L. Carter (fh)
C. C. Chang (g)
G. V. Chilingar (eg)
J. M. Christie (h)
S. P. Cohen (eg)
H. Conkling (eg)
G. R. Cook (d)
C. E. Corbato (afgh)
H. C. Corben (d)

J. R. Crippen (g)
J. C. Crowell (cegh)
C. J. Derrick (b)
C. Durrell (fh)
R. P. Ecklis (bg)
J. G. Edinger (e)
C. C. Elder (eg)
K. O. Emery (de)
T. A. Farley (d)
W. L. Gates (ce)
R. H. Gilman, III (beg)
R. M. Glendinning (eg)
M. Glicken (ad)
U. S. Grant (eg)
C. D. Graves (ad)
E. W. Greenstadt (d)
D. T. Griggs (abfh)
G. L. Guymon (g)
W. A. Hall (g)
J. C. Harrison (ah)
H. C. Heard (befh)
R. A. Hill (g)
Y. Hiroshige (d)
J. Holmboe (e)
R. E. Holzer (ed)
H. Hoover, Jr. (abcdefgh)
H. W. Hoylman (bdfh)
A. C. Ingersoll (eg)
J. D. Isherwood (g)
S. Italia (abd)
J. G. Jobes (eg)
C. H. Johnson (abdfh)
E. C. Johnson (beg)
E. J. Johnston (g)
H. K. Kallmann-Bijl (ed)
J. Kaplan (ed)
R. Y. Kawano (g)
S. R. Keim (egh)
J. M. Kelso (d)
G. C. Kennedy (fh)
J. E. Kilkenny (bdh)
L. Knopoff (abdfh)
T. N. Krishnamurti (c)
J. M. Lang (ed)
W. A. Lang (eg)
F. B. Laverty (eg)
D. J. Leeds (b)
W. F. Libby (efg)
B. Liley (d)
J. W. Lindner (d)
I. M. Longman (ab)
E. F. Martina (d)
A. J. Masley (d)
J. W. Mathews
A. J. McMahon (bcd)
A. B. Mickelwait
J. W. Miles (ce)
Y. Mintz (c)
L. K. Morris (ab)
S. B. Morris (beg)
F. S. Mozer (ad)
G. L. Mueller (cd)
M. Munoz (g)
L. O. Myrup (bce)
C. R. Nagaraja Rao (e)
M. Neiburger (ce)
R. C. Newton (fh)
W. L. Orr (efgh)
P. D. Pack (abeg)
C. E. Palmer (e)
F. S. Parker (bdh)
J. L. H. Peck (d)
A. F. Pillsbury (g)
D. C. Pontius (beefg)
L. D. Porter (b)
H. R. Pruppacher (e)
C. B. Raleigh (h)
Richfield Oil Corp.
C. A. Riegel (ce)
J. B. Roche (d)
A. Rosen (d)
J. L. Rosenfeld (fh)
W. W. Rubey (efgh)
R. E. Rule (befgh)
J. A. Ryan (bdh)
B. E. Sabels (f)
H. Salvatori (b)
J. C. Savage (b)
C. H. Savit
E. B. Scheuer (ed)
Z. Sekera (ce)
U. Shafrir (cd)
H. A. Shiffer (aegh)
R. L. Shreve (dgh)
V. A. Sirolinian (c)
L. B. Slichter (abdh)
H. C. Smith (abcdefgh)
Space Technology Labs., Inc.
L. D. Statham (abcd)
E. A. Steinhoff (ac)
R. Stone (befgh)
R. D. Stovell (eh)
D. W. Stuart (eg)
R. C. Taylor (cde)
R. G. Thomas (defgh)
R. W. Thomsen (g)
W. F. Twitty (eg)
E. Uchupi (eg)
S. Ueno (e)
S. V. Venkateswaran (cde)
K. D. Volk, (beg)
L. R. Weiss (abde)
H. V. Welch (f)
Western Geophysical Co. of America
G. W. Wetherill (abfh)
S. A. Wilfong (eg)
M. G. Wurtele (cd)

LOS BANOS
H. A. Stoddard (g)

MADERA
H. Barnes (g)

MALIBU
W. H. Hughes (ed)
C. D. Wilson (de)

MANHATTAN BEACH
D. T. Hodder (cde)
H. P. Roth (c)

MENLO PARK
D. F. Barnes (bdefh)
G. D. Bath (d)
R. W. Bayley (dfh)
D. A. Brew (fh)
C. W. Carnahan (d)
R. L. Christiansen (fh)
J. B. Cladis (d)
D. L. Clark (f)
R. T. Collis (eg)
G. M. Cresswell, Jr. (e)
W. E. Davis (abdh)
R. R. Doell (d)
L. T. Dolphin, Jr. (d)
D. L. Durham (h)
R. B. Dyce (d)
J. H. Feth (fg)
B. T. Fogle (cd)
D. R. Grine (bh)
S. W. Grinnell (g)
D. F. Hewett (fg)
J. C. Hodges (d)
W. Hofmann (g)
M. M. Holl (eeg)
D. H. Hutchison (e)
W. L. Imhof (ed)
G. L. Johnson (d)
J. C. Kuehn (d)
R. L. Leadabrand (d)
A. Locke (fh)
C. R. Longwell (abefh)
R. S. Lord (g)
D. R. Mabey (abdh)
J. F. McAllister (f)
V. E. McKelvey (degh)
C. W. Merriam (h)
H. V. Peterson (beg)
R. E. Peterson (d)
E. T. Pierce (ed)
A. M. Piper (g)
I. G. Poppoff (cd)
T. C. Poulter (abd)
T. W. Robinson (cg)
J. C. Schlobohm (d)
E. M. Shoemaker (fh)
W. C. Smith (fgh)
W. S. T. Smith (befgh)
D. Sokol (g)
L. R. Tepley (cd)
R. H. Todd (d)
G. W. Walker (abfh)
D. E. White (fgh)
R. C. Whitten, Jr. (d)
R. E. Winkelman (d)
G. F. Worts, Jr. (g)
G. Yamanaga (g)
R. A. Young (d)

MERCED
K. R. McSwain (g)

MILLBRAE
L. Costedoat (g)
G. J. Tarrico (ig)

MILPITAS
E. G. Hagadorn, Jr. (eg)

MOFFETT FIELD
R. M. Crane (d)
J. H. Wolfe (d)

MONTEBELLO
M. B. Scott (g)

MONTEREY
L. C. Clarke (e)
W. D. Duthie (e)
J. E. Geary (cef)
F. L. Martin (c)
G. L. Taylor (ce)
W. Van der Bijl (cdeg)
J. B. Wickham (ce)

MONTEREY PARK
R. Y. D. Chun (ceg)
A. V. Cocking (ae)
L. C. Fowler (eg)
R. G. Hansen (g)
R. M. Uriarte (abc)

MOUNTAIN VIEW
J. F. Lipman (d)
R. F. Mlodnosky (d)
G. W. Sharp (d)
F. F. Zdenek (g)

NEWBURG PARK
W. R. Yarwood (ef)

NEWPORT BEACH
L. J. Barbieri (cdef)
F. P. Dixon (ad)
G. Plass (cdeh)
D. C. Sachs (bdh)
W. Silvey (cd)
R. C. Stabler (d)
V. R. Stull (ed)
D. G. Van Ornum (ed)

NORTH HOLLYWOOD
M. Anderson (g)
I. Borow (eg)
C. J. Donmes (g)
S. J. Grossman (dh)
J. Paull (abceg)
L. F. Pratt (g)
I. Sherman (ag)

NORTHRIDGE
J. C. Fredericks (g)
C. E. Jacob (abdefgh)
S. Swales (cde)

NORTH SACRAMENTO
D. M. Hill (bfgh)

NOVATO
W. Q. Wright (abedgh)

OAKLAND
D. L. Feuerstein (ceg)
M. R. Lewis (g)
C. H. Sandberg (adfh)
J. A. Trantina (b)

OILDALE
R. J. Allenby (abf)
C. A. Bengtson (abcdefgh)

ORANGE
S. V. Billingsley (deg)
R. G. Christopherson (c)
D. L. Gardner (g)

OXNARD
A. H. Bachelor (a)
L. T. Bankston (ee)
W. A. Bowen, Jr. (d)
B. H. Erickson (aeh)
R. E. Jones (ce)
J. E. Masterson (e)
C. Mock (b)
E. H. Moser, Jr. (h)
R. G. Naumann (eg)
J. T. O'Brien (eg)
G. V. Pesce (cg)

PACIFIC PALISADES
H. P. Gates (d)
F. R. Gilmore (bd)
R. B. Muchmore (acd)
J. D. Sartor (c)
P. R. Taylor (bef)
O. H. Truman (ab)
D. E. Whelan, Jr. (ade)

PALO ALTO
A. V. Alksne (cd)
R. W. Augenstein (cde)
W. E. Bell (dh)
R. C. Briggs (g)
L. F. Chase, Jr. (d)
L. N. Chikwendu (g)
L. Colin (cd)
R. F. Day (c)
A. J. Dessler (d)
K. L. Edwards (de)
J. D. Eisler (bd)
J. E. Evans (d)
R. G. Fawcett (c)
P. C. Fisher (d)
C. V. Givan (eg)
G. W. Greene (abcdefgh)
G. H. Hagn (acd)
L. M. Henry (e)
J. G. Holbrook (d)
R. L. Ives (eg)
F. S. Johnson (cd)
A. H. Lachenbruch (bcefgh)
L. Langan
J. A. Laurmann (cde)
J. Lederberg (ef)
J. C. Lee (cd)
R. H. Light (ed)
R. K. Linsley (g)
G. M. MacLeod (bg)
R. D. Moffat (d)
M. E. Packard (d)
C. F. Petersen (abh)
J. T. Pott (g)
S. E. Rantz (g)
K. A. Ruddock (d)
J. Scovitte (d)
L. W. Templeton (d)
Varian Associates
W. Vlezee (cd)
T. E. Wales, Jr. (g)
M. Walt (d)
L. B. Wilner (e)

PALOS VERDES ESTATES
S. C. Freden (d)
W. A. Marrison (a)
R. I. Meeker, Jr. (e)
J. F. Vogl (d)

PASADENA
C. R. Allen (bgh)
D. L. Anderson (beh)
H. R. Anderson (d)
P. O. Banks (ef)
C. A. Barth (d)
M. N. Bass (fh)
H. Benioff (bh)
A. Ben-Menahem (b)
S. Biehler (abdefh)
N. H. Brooks (g)
H. S. Brown (ef)
J. D. Burns (ed)
A. Cisternas (beh)
F. R. Cline (eg)
F. B. Coker (bde)
L. Davis, Jr. (d)
C. H. Dix (abdh)
M. B. Dobrin (bdh)
E. A. Flinn (b)
G. F. Francis (b)
C. J. Frankovitch (ab)
J. R. Grady (e)
R. Hayward (bdefh)
J. H. Healy (b)
G. E. Heisley (dfh)
A. R. Hibbs (bdf)
A. F. Hildebrandt (d)
J. F. Hook (b)
G. W. Housner (b)
D. E. Hudson (b)
A. H. Jazwski (bd)
J. F. Kennedy (ag)
R. L. Kovach (b)
F. E. Lehner (b)
A. A. Loomis (eh)
H. A. Lowenstam (ef)
W. S. McDonald (d)
C. R. McKinney (f)
F. C. McMichael (abdeh)
A. E. Metzger (f)
J. D. Mihalov (dg)
R. B. Moran, Jr. (bdh)
B. T. Morris (g)
B. C. Murray (ah)
H. V. Neher (d)
M. M. Neugebauer (d)
J. M. Nordquist (abefh)
R. A. Phinney (be)
R. E. Pollak (g)
G. W. Potapenko (ad)

F. Press (abdefh)
W. H. Rempel (c)
C. F. Richter (bh)
H. L. Richter, Jr. (cd)
R. F. Scott (abcegh)
R. P. Sharp (fg)
L. T. Silver (fh)
E. E. Simmons, Jr. (dg)
E. J. Smith (d)
E. L. Smith (g)
S. W. Smith (bd)
T. B. Smith (e)
R. G. Sohlberg (bfh)
R. H. Taylor (g)
N. Toksoz (b)
United ElectroDynamics, Inc.
V. A. Vanoni (g)
T. von Karman (ceg)
H. W. Washburn (bef)
K. Watson (b)
R. G. Wayland (bdfh)
B. W. Wilson (ceg)
O. R. Wulf (cd)
F. Yagi (d)
F. Zwicky (dgh)

PIEDMONT
R. P. Cook (cg)
O. W. Swainson (bde)

PLEASANTON
R. E. Donaldson (de)
W. N. Hess (d)
G. W. Johnson (aefh)

POINT MUGU
C. E. Ewing (ac)

POMONA
H. G. Ferris (de)
C. J. Todd (c)

PORTERVILLE
F. A. Strauss (g)

PORTOLO VALLEY
N. H. Stearn (dh)

POWAY
R. Ruch (bde)

RANCHO SANTA FE
G. C. Ewing (ceg)
J. D. Isaacs (de)

REDLANDS
B. Dibble (g)
E. F. Dibble (edg)
H. P. Hinckley (g)
J. J. Prendergast (g)

REDONDO BEACH
G. A. Paulikas (bd)

REDWOOD CITY
A. D. Anderson (cd)
F. L. Ludwig (e)
J. B. Styles (cd)

RICHMOND
R. B. Krone (g)

RIDGECREST
A. J. Krueger (cd)

RIVERSIDE
T. B. Barnidge (c)
H. L. Creason (g)
B. L. Grover (cg)
R. B. Hickok (g)
A. W. Lawson (h)
S. Richards (g)
L. H. Stolzy (cg)

ROLLING HILLS
A. W. Ladd (d)

ROLLING HILLS ESTATES
R. E. Huschke (c)

SACRAMENTO
B. A. Arnold (ceg)
T. L. Atherton (ae)
H. G. Banks (gh)
V. W. Barth (g)
R. T. Bean (g)
L. R. Beard (cg)
V. Bengal (abg)
A. J. Brown (beg)
E. Brown (g)
G. E. Brown (abdeh)
M. W. Brown (cg)
W. B. Bull (cg)
J. I. Burns (cg)
G. R. Carroll (g)
L. Chee (g)
A. L. Franks (fg)
W. I. Gardner (fg)
C. O. Greenwood, Jr. (abcdefgh)
A. R. Haight (b)
J. M. Haley (g)
R. L. Hall (cg)
H. C. Hanson (g)
D. E. Hopping (adeh)
I. M. Ingerson (ceg)
N. C. Janke (gh)
D. E. Kienlen (g)
P. Kunkel (g)
B. E. Lofgren (ceg)
L. H. Magar (aceg)
E. C. Marliave (g)
K. B. Mayo (g)
C. A. McCullough (g)
F. C. Mikels (g)
L. R. Mitchell (g)
J. M. Morris, Jr. (ag)
L. A. Mullnix (g)
M. E. Murphy (g)
J. O'Brien (g)
J. Osoffsky (g)
M. M. Pagenhart (eg)
D. S. Pastir (g)
H. J. Paulson, Jr. (eg)
H. J. Peters (fg)
J. F. Poland (gh)
J. B. Powers (c)
E. P. Price (cdg)
R. C. Richter (g)
F. S. Riley (g)
E. F. Serr, III (eg)
J. W. Shannon (eg)
R. J. Shlemon (bef)
E. W. Silliter (g)
H. M. Stafford (g)
D. S. Stoner (g)
E. F. Sullivan (g)
K. M. Turner (g)
J. van de Erve (cg)
J. W. Walling (g)
E. P. Warren (g)
C. M. Weber (g)
J. L. Welsh (g)
R. A. Williams (ag)
H. D. Wilson, Jr. (g)
C. G. Wolfe (cg)
T. P. Wootton (g)

ST. HELENA
A. A. Koch (beg)

SAN BERNARDINO
L. W. Graybill (c)
W. P. Rowe (g)

SAN BRUNO
G. B. Marchand (abcdefgh)
R. C. Nichols (c)

SAN CARLOS
J. C. Beckman (ce)

SAN CLEMENTE
R. J. Smith (h)
M. Suter (g)

SAN DIEGO
H. E. Adelson (abcde)
M. A. Beal (e)
G. L. Bloom (eg)
B. Brooks (fg)
A. L. Brosio (cg)
J. H. Brown (bdh)
E. C. Buffington (aefgh)
A. Y. Cabezas (acd)
F. G. Casal (cd)
M. F. Culbertson (ce)
W. E. Devereux (cd)
R. S. Dietz (e)
W. C. Erickson (cd)
General Dynamics Corp.
E. E. Gossard (ce)
M. H. Halstead (c)
E. L. Hamilton (e)
D. A. Hamlin (d)
F. H. Howard (e)
C. L. Johnson (e)
E. C. LaFond (c)
O. S. Lee (e)
J. M. Lindbergh (e)
E. M. Little (ceg)
M. S. Loughridge (abcdegh)
W. K. Lyon (e)
N. Malley (e)
J. J. Marciano (ceg)
D. D. Pollard (e)
G. P. Rigsby (g)
G. A. Shumway (ae)
F. N. Spiess (e)
J. E. Tyler (e)
L. L. Vette (cd)
S. Weisbrod (cd)
J. F. Wingo (g)

SAN FRANCISCO
A. W. Andrews (d)
A. G. Bartlett (eg)
Y. Bonillas (bcegh)
N. M. Burgner (e)
H. W. Burke (egh)
I. Campbell (efgh)
F. B. Clendenen (g)
R. T. Devine (b)
M. L. Dickinson (abcgh)
C. R. Elford (edeg)
L. E. Fortner, Jr. (c)
J. M. Gallegos (f)
M. A. Garbell (cde)
H. Green (bfg)
J. V. Hastings (bd)
H. F. Haworth (g)
S. Holman (cefh)
L. H. Hutchinson (c)
J. L. Johnston (ce)
P. Joralemon (fi)
C. C. Keller, III (ce)
C. H. Lee (g)
T. L. Maher (abdeh)
H. C. McIntyre (c)
D. H. McLaughlin (efgh)
J. R. Miller (c)
R. C. Miller (ceg)
A. L. Raithel, Jr. (ce)
J. Reber (g)
R. Rhoades (fgh)
W. G. Schulz (g)
I. J. Silverstone (g)
W. Stava (eg)
K. V. Steinbrugge (b)
W. L. Stephens (g)
K. V. Taylor (abgh)
T. F. Thompson (bfg)
S. L. Totten (bdh)
W. A. Waldorf (beg)
B. Zavos (eg)

SAN GABRIEL
A. E. Bruington (g)
D. E. Cole (eg)
L. L. Longacre (g)

SAN JOSE
C. C. Christman, Jr. (cde)
S. A. El Wardani (ef)
G. W. Franz (fh)
W. A. Reinhardt (abcde)
C. T. Snyder (g)
E. E. Stohsner (ab)
R. D. Westfall (g)

SAN LEANDRO
R. J. Wasley (ceg)

SAN LUIS OBISPO
W. Jones (abcefg)
J. L. Merriam (eg)

SAN MARINO
W. Littlefield (g)
R. W. Spencer (agh)
C. M. Swinney (fh)
K. van der Weg (bfh)

SAN MATEO
H. B. Hutchinson (ce)
H. M. Moses (ag)
I. T. Sanders (ae)

SAN PEDRO
J. G. Holwerda (g)

SAN RAFAEL
R. E. Jentoft, Jr. (ce)

SAN RAMON
K. P. Johnson (cd)

SANTA ANA
R. J. Monica (cde)
H. G. Osborne (cg)
M. N. Thompson (eg)

SANTA BARBARA
H. S. Aurand, Jr. (abcdefgh)
E. Bollay (ceg)
P. E. Bronner (abcdefgh)
W. F. Dudziak (abcde)
R. D. Elliott (e)
R. E. Evenson (fg)
J. A. Fejer (d)
R. B. Guillou (fg)
J. B. Hand (adefgh)
C. F. Hansen (d)
J. Kittredge (g)
G. A. Miller (bfg)
L. R. Padberg, Jr.
R. G. Paquette (e)
R. C. Timme (e)
E. J. Tschupp (e)
D. E. Weil (aegh)
N. R. Williams (bcdegh)

SANTA CLARA
B. R. Briggs (cd)
F. B. Fuller (cd)
L. Gwaltney (c)
E. E. Harris (g)
A. L. Mei (b)
D. W. Swayze (cd)
J. A. Weber (ce)

SANTA MONICA
E. S. Batten (c)
J. C. Bose (ae)
T. H. Braun (b)
D. Deirmendjian (e)
E. Dews (ce)
Douglas Aircraft Co. Inc.
P. A. Goldberg (ed)
S. M. Greenfield (bcde)
S. E. Helprin (bd)
O. Husmann (d)
Y. H. Katz (cdeg)
W. W. Kellogg (cd)
J. W. Kern (d)
The Rand Corp.
R. R. Rapp (c)
G. F. Schilling (cd)
E. H. Vestine (bcdh)
E. P. Wheaton
J. A. Wright (d)
R. G. Wuerker (bdfh)

SANTA PAULA
B. A. Babcock (fg)
W. P. Price, Jr. (g)

SANTA ROSA
J. E. Alverson (cg)
B. S. Barnes (cg)

SARATOGA
R. M. Tripp (bdh)

SEAL BEACH
J. W. Dunham (e)

SEASIDE
R. E. Hughes (cde)

SEPULVEDA
A. J. Carsola (efh)
R. S. Levine (cd)

SIERRA MADRE
R. F. Clawson (g)

SOLANA BEACH
R. P. Von Herzen (befh)

STANFORD
R. N. Bracewell (d)
D. L. Carpenter (d)
K.-l. Chan (d)
W. G. Clement (bd)
J. H. Crary (d)
S. N. Davis (cgh)
W. R. Dickinson (aefh)
H. K. Dolan (abdh)
L. E. Eber (c)
W. D. Egan (d)
V. R. Eshleman (d)
J. B. Franzini (aeg)
O. K. Garriott (d)
V. G. Gregson, Jr. (dh)
R. A. Helliwell (d)
G. B. Hess (abcdeh)
E.-Y. Hsu (g)
A. Knopf (fh)
E. B. Knopf (fh)
K. B. Krauskopf (fh)
L. A. Manning (cd)
J. R. Morgali (cg)
D. C. Noble (fh)
B. M. Page (bfgh)
R. Perry (eg)
A. M. Peterson (cd)
W. F. Rowland (acg)
J. F. T. Saur, Jr. (ce)
D. T. Secor, Jr. (fh)
J. L. Soske (bcdfh)
G. A. Thompson (h)

J. K. Vennard (g)
A. T. Waterman, Jr. (cd)
P. Yoh (d)

STOCKTON
G. W. Fuller (eg)

SUNNYVALE
L. Baer (cdeg)
W. E. Francis (d)
H. Hulsing (g)
F. S. Johnson
Lockheed Aircraft Corp.
B. V. Marshall (abdgh)
W. G. Nolberg (bedefh)
L. J. Stempson (c)
R. A. Weir (d)
R. W. Whipple (adf)
D. M. Wrathall (d)

SUSANVILLE
I. Valov (fh)

TARZANA
H. A. Morewitz (h)
J. W. Rolston (ceg)

THOUSAND OAKS
S. M. Goltz (g)

TIBURON
W. W. Steen (g)

TORRANCE
T. O. Haig (c)
R. D. Terry (e)

TUJUNGA
G. A. Brown (g)

VAN NUYS
J. E. Slosson (eg)

VENTURA
T. L. Bailey (abefh)
T. R. Carr (ace)
B. D. Edde (cg)
A. I. Funai (eg)
R. H. Jamison (g)
D. I. Kuchenreuther (e)
T. M. Morgan (g)
W. D. Morrison (bg)

VISALIA
K. S. Muir (g)
R. W. Page (g)

VISTA
L. G. Boyd (beeg)

WALNUT CREEK
T. S. Vanasek (beefh)

WATSONVILLE
C. S. Jarvis (egh)

WEST COVINA
R. L. Kolpack (efg)

WHITTIER
J. H. Brown (g)
F. A. Getz (abdefgh)
M. A. Light (fh)
E. E. Moots (gh)
J. F. Riccio (abdegh)
W. J. Wood (cg)

WOODLAND HILLS
R. W. Fredricks (b)
A. D. Goedeke (d)
N. C. Ostrander (d)
R. D. Wanselow (bcdef)

WOODSIDE
O. G. Villard, Jr. (d)

CANAL ZONE

BALBOA
E. Kanz (abcg)

BALBOA HEIGHTS
R. H. Stewart

CURUNDU
J. A. Kozlosky (ad)

FT. CLAYTON
R. F. Geller, Jr. (ad)
F. T. Skebeck (a)

COLORADO

AKRON
R. H. Mickelson (g)
J. T. Musick (g)

ARVADA
P. P. Enger (ceg)
J. R. Jobler (acd)
S. P. Kanizay (bfh)
R. A. McCullough (abdfgh)
I. S. McQueen (g)
S. W. Stewart (bd)

AURORA
D. C. Cooney (edefgh)

BOULDER
L. W. Acton (ed)
R. G. Athay (d)
D. K. Bailey (acde)
R. F. Barkhaus (bcdeh)
B. R. Bean (c)
B. W. Beebe (bch)
W. C. Bradley (eg)
F. W. Brown (ed)
B. A. Cahoon (c)
W. Calvert (ad)
W. H. Campbell (d)
P. W. Carlin (bc)
W. B. Chadwick (acdh)
C. J. Chilton (d)
R. Cohen (d)
W. S. Cooper (eg)
G. W. Curtis (d)
R. M. Davis, Jr. (d)
J. S. Denison (d)
R. DeWitt (d)
J. A. Eddy (d)
J. E. Flack (g)
G. A. Gamow (adh)
D. M. Gates (abcdefgh)
T. N. Gautier, Jr. (d)
W. D. George (a)
S. C. Gladden (cd)
R. T. Hansen (d)
B. Haurwitz (cde)
H. E. Holt (efh)
J. D. Horn (c)
W. S. Hough (dg)
L. L. House (d)
H. H. Howe (d)
D. C. Hunt (d)
H. B. Janes (abc)
A. G. Jean, Jr. (cd)
P. R. Julian (eg)
N. J. King (g)
A. W. Kirkpatrick (ac)
R. W. Knecht (d)
J. L. Kulander (d)
V. E. Lally (cd)
R. S. Lawrence (d)
H. J. Leighton (d)
J. V. Lincoln (d)
C. G. Little (d)
R. J. Low (ed)
S. Matsushita (cdf)
J. W. McCaulley (cd)
R. E. McDuffie (cd)
R. E. McGavin (c)
J. S. Moore (c)
M. E. Nason (d)
G. A. Newkirk, Jr. (d)
K. A. Norton (acd)
R. H. Olson (bce)
S. M. Ostrow (d)
W. A. Renne (d)
L. P. Riggs (c)
F. E. Roach (d)
W. O. Roberts (cd)
A. H. Shapley (bdh)
R. L. Shutt (d)
R. J. Slutz (d)
E. K. Smith, Jr. (cd)
G. T. Stone (f)
W. L. Taylor (cd)
M. C. Thompson, Jr. (abch)
T. E. VanZandt (d)
E. E. Wahlstrom (fh)
J. R. Wait (d)
L. A. Warner (fh)
J. M. Warnock (d)
C. S. Warwick (d)
J. W. Warwick (d)
J. M. Watts (d)
J. L. Weinberg (d)
O. R. White (d)
A. Wiin-Nielsen (d)
J. W. Wright (cd)
O. E. Youngdahl (d)
H. Zirin (d)

CANON CITY
L. F. Crowe (e)

COLORADO SPRINGS
C. E. Buell (ceg)
R. C. Bundgaard (c)
C. E. Everson (c)
L. T. Grose (fh)
W. R. King (c)

DENVER
T. P. Ahrens (befgh)
G. G. Anderman (befgh)
R. H. Angerer (b)
S. G. Argudo (abde)
J. H. Baily (g)
F. B. Barker (fg)
W. A. Beetem (g)
G. C. Bennet (ceg)
R. A. Black (bd)
B. Blanchard (aceg)
W. M. Borland (acg)
R. S. Cannon, Jr. (efh)
J. E. Case (abdfh)
G. H. Chase (gh)
J. Cooper (abfh)
L. W. Crow (c)
D. L. Daniels (bg)
M. E. Denson, Jr. (abdefgh)
A. M. DiRenzo (bdh)
C. E. Dobbin (befh)
W. S. Eisenlohr, Jr. (g)
F. C. Frischknecht (abdgh)
W. U. Garstka (g)
J. Gilluly (abefgh)
R. E. Glover (bg)
W. R. Griffitts (fh)
A. J. Gude, III (bcdfh)
R. F. Hadley (eg)
O. C. Hansen (g)
G. E. Harbeck, Jr. (eg)
R. Hazlewood (b)
J. D. Hem (g)
J. C. Hollister (b)
R. C. Holmer (bd)
I. E. Houk (bcg)
R. H. Howe (bdefh)
K. E. Ireland (g)
W. H. Irwin (fgh)
S. N. Jackson (eg)
A. W. Jenkins, Jr. (ed)
A. F. Johnson (g)
A. R. Jordan (bcd)
O. Kalmbach (g)
G. V. Keller (d)
R. E. Kennedy (eg)
F. L. Kerstetter, Jr. (bcdefgh)
M. D. Kleinkopf (dfh)
C. L. Kober (g)
G. E. Koberg (g)
K. H. Koenen (abdfh)
F. C. Koopman (g)
J. P. Krick (c)
H. Larson (cg)
B. F. Leonard, III (dfh)
S. W. Lohman (g)
T. L. Longacre (abdefh)
G. H. Lynn (ac)
H. E. Malde (gh)
G. B. Mangan (bdh)
K. R. Melin (g)
M. Merriman (befh)
J. S. Meyers (cg)
J. S. Olson (fh)
F. W. Osterwald (fh)
L. C. Pakiser, Jr. (abdfh)
E. L. Pemberton (g)
J. W. Peters (abdh)
G. A. Phillips (d)
H. Porter, Jr. (abdh)
H. A. Powers (f)
M. N. Qureshy (h)
H. S. Riesbol (cg)
C. H. Roach (befgh)
H. E. Roberts (abceh)
S. Schamach (cg)
E. M. Schlaikjer (ab)
S. L. Schoff (ceeg)
S. A. Schumm (g)
R. C. Scott (fg)
G. L. Snyder (befh)
J. W. Spencer (bdegh)
R. J. Sprinkel, Jr. (gh)
R. W. Stallman (g)
N. C. Stone (c)
D. W. Strangway (df)
R. TenEyck (bh)
R. J. Tipton (eg)
Tipton & Kalmbach, Inc.
B. C. Underhill (bh)
M. C. Van Lewen (acg)
W. W. Vaughn (bfh)
R. E. Warrick, (bh)
W. W. Wheeler (g)
T. C. Wilson (abch)

DURANGO
W. F. Crabtree (bdfg)
B. F. Latch (abh)
W. J. Osterhoudt (beg)
K. G. Smith (bdg)

ENGLEWOOD
G. A. Hill (egh)
J. M. Lara (g)

EVERGREEN
J. C. Antweiler (efgh)
S. A. Miller (g)

FORT COLLINS
M. L. Albertson (eg)
R. H. Brooks (eg)
J. E. Cermak (ag)
A. R. Chamberlain (cg)
W. E. Code (g)
R. E. Dils (g)
R. L. Fahnestock (efg)
B. Frank (g)
B. C. Goodell (eg)
L. O. Grant (c)
D. V. Harris (fgh)
W. L. Hausbild (g)
M. D. Hoover (g)
D. W. Hubbell (g)
L. G. King (eg)
J. L. Kovner (eg)
L. D. Love (g)
M. Martinelli, Jr. (eg)
B. M. Reich (eg)
E. V. Richardson (g)
R. Riehl (e)
R. A. Schleusener (eg)
E. F. Schulz (eg)
D. B. Simons (g)
V. M. Yevdjevich (g)

GOLDEN
W. M. Barney, Jr. (bde)
D. F. Coolbaugh (abdh)
T. L. Finnell (abfgh)
F. A. Hadsell (bh)
R. B. Hofmann (bdh)
J. J. Jacobson (aef)
L. E. Jones (bh)
T. R. LaFehr (bfh)
G. G. Parker (cefg)
J. S. Rinehart (h)
P. A. Rodgers (d)
S. Smookler (abde)
J. W. Vanderwilt (fh)

GRAND JUNCTION
R. C. Cutter (abefgh)
P. Donnerstag (abdfh)
R. F. Droullard (fh)
R. L. Kinnaman (abdefh)
J. H. Scott (bd)

GUNNISON
H. K. Rouse (g)

INDIAN HILLS
E. A. Crawford (d)

LAKEWOOD
F. M. Byers, Jr. (f)
B. G. Dean (bfgh)
G. A. Lacoque (g)
T. S. Lovering (defgh)
E. L. Meyer (g)
E. A. Moulder (g)
D. G. Wyant (dfh)

LITTLETON
J. P. Dolan (bdgh)
Ohio Oil Co.
R. D. Russell (abcdefgh)
L. Strong (c)

ROLLINSVILLE
M. H. Rees (d)

STERLING
R. Monahan (b)

USAF ACADEMY
J. P. Hereford (c)

WHEATRIDGE
F. C. Ames (g)
J. R. Anzman (df)
R. A. Bertle (g)
W. H. Jackson (bdefh)
A. I. Johnson (g)
D. J. Stuart (abch)

CONNECTICUT

BRIDGEPORT
F. L. Panuzio (acgh)

CANAAN
W. D. Lambert (abeh)

DANBURY
A. A. Brant (bcdgh)
C. L. Elliot (ad)
R. H. Rapp (abde)

DARIEN
W. Clark, Jr. (c)

EAST HARTFORD
D. Langford (abcdef)
R. C. Molloy
United Aircraft Corp.

FAIRFIELD
J. F. Devane, S.J. (b)

FARMINGTON
C. F. Jenkins (c)

HARTFORD
R. W. Berry (f)
R. L. Carnahan
G. F. Collins (ceg)
H. M. Frazier (c)
T. F. Malone (c)
R. J. Roth (c)
Travelers Research Center, Inc.
R. M. White (ceg)

MANCHESTER
L. P. Johnson, Jr. (g)

MERIDEN
W. B. Thompson (d)

MIDDLETOWN
F. I. Boley (cd)
H. C. S. Lanford (cdeg)
T. L. Page (abd)
J. W. Peoples (fh)
F. R. Zabriskie (d)

NEW HAVEN
R. L. Armstrong (f)
R. S. Ayre (bh)
A. M. Bateman (acfg)
G. Breit (d)
D. Brouwer (a)
J. N. Douglas (cd)
C. O. Dunbar (c)
A. C. Duxbury (e)
R. F. Flint (ceg)
B. A. Hall (f)
E. C. Hansen (bfh)
M. L. Jensen (afeh)
D. S. Kimball (d)
S. Licht (c)
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G. A. Riley (e)
G. Robley (ceg)
J. Rodgers (fh)
J. E. Sanders (efh)
D. F. Schutz (efh)
H. J. Smith (d)
K. K. Turekian (ef)
H. A. Wadell (eg)
M. S. Walton, Jr. (bdefh)
A. L. Washburn (cg)

NEW LONDON
G. S. Harris (be)

NORTHFORD
D. S. McClusky (h)

NORWALK
C. B. Hazzard
Perkin-Elmer Corp.

NORWICH
L. F. Tringe (c)

ORANGE
L. C. Graton (fh)

POMFRET
B. O'Brien (cd)

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H. G. Doll (d)
J. H. Heller (cd)

RIVERSIDE
E. T. Simmons (g)
W. S. Sullivan (abcdefgh)

SOUTH GLASTONBURY
A. N. Carson (ce)

STORRS
J. M. Aitken (fh)
J. B. Lucke (beh)
K. C. Tippy (acgh)
A. N. Vanderlip (ag)

STRATFORD
A. G. Gates (ce)
W. R. Winkler (cd)

TARIFFVILLE
J. H. Thomas (c)

TRUMBULL
A. Ecsedy, Jr. (e)

WEST HARTFORD
B. L. Bigwood (g)
J. G. Bryan (c)

WESTPORT
G. Barratt (ceg)
L. G. Week (abcdefgh)
G. E. Wheeler (g)

WETHERSFIELD
R. L. Carnahan (eg)

WINDSOR
W. A. Smith (g)

WINDSOR LOCKS
D. O. Hackett (g)
C. D. Hopkins, Jr. (g)
L. R. Mahar (c)

WOLCOTT
H. R. Anderson (g)

DELAWARE

MAGNOLIA
V. L. Pearson, Jr. (eg)

NEWARK
A. C. Barlow (g)
P. Bock (eg)
D. H. Boggess (g)
J. J. Groot (eg)
N. C. Vasuki (aceg)

WILMINGTON
J. L. Gillson (fg)

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J. E. Ainsworth (e)
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L. T. Aldrich (f)
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A. S. Allen (bdgh)
L. P. Allen (cdeg)
C. A. Anderson (fh)
R. K. Anderson (e)
R. V. Anderson (cd)
M. J. Andre (e)
G. E. Andreasen (eg)
T. Asada (b)
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R. R. Bennett (g)
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R. H. Brown (g)
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A. C. Campbell (a)
J. B. Campbell (abd)
D. S. Carder (bdfh)
C. W. Carlston (g)
G. D. Cartwright (c)
F. Chayes (fh)
T. A. Chubb (d)
S. P. Clark, Jr. (dfh)
C. H. Cline (ce)
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C. W. Cochrane (c)
P. M. Cohen (a)
L. O. Colbert (abde)
G. D. Colchagoff (df)
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W. D. Collins (g)
C. S. Conover (eg)
E. L. Corton (ce)
A. S. Cosler, Jr. (ad)
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P. A. Crafton (abceg)
A. E. Craig (a)
V. E. Cram (ce)
A. F. Crary (abdh)
K. G. Crosby (ae)
G. W. Cry (c)
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R. N. Culnan (ceg)
S. F. Cushman (a)
J. A. da Costa (g)
L. Dalrymple (cg)
T. M. Davis (d)
P. S. De Leonibus (ce)
J. H. Dellinger (d)
L. S. Dennis (d)
W. H. Diment (abdh)
J. E. Dinger (bede)
W. S. Dix (a)
B. R. Doe (f)
W. W. Doxey, Jr. (a)
W. W. Doyel (g)
M. Dubin (d)
J. A. Duerksen (a)
A. van V. Dunn (g)
R. A. Earle (abd)
R. O. Eaton (eg)
C. F. Ellingwood (a)
J. O. Ellis (c)
G. E. Ericksen (f)
C. O. Erickson (c)
G. H. Espenshade (fh)
W. B. Eyestone (eg)
E. B. Fabiano (d)
F. S. Farquhar (e)
H. Faul (dfh)
H. W. Feldt (aeg)
A. G. Fiedler (g)
N. C. Fishel (ade)
R. A. Fisher (bdfh)
F. J. Flynn (eg)
P. D. Foote (bgh)
S. E. Forbush (dh)
H. L. Foster (eh)
F. N. Frenkiel (ce)
H. Friedman (d)
I. Friedman (ef)
S. Fritz (c)
J. W. Gabelman (fh)
E. E. Gallegos (a)
C. L. Garner (abde)
J. W. Gettemy (cd)
D. L. Gilman (c)
R. E. Glacken (d)
H. Glaser (cd)
J. J. Glass (f)
R. G. Godfrey (eg)
B. Goldberg (aed)
S. S. Goldich (f)
M. I. Goldman (eg)
F. R. Gracely (ad)
R. Y. Grant (fg)
M. S. Griffin (g)
R. Gunn (edfh)
J. T. Hack (g)
J. V. Hall, Jr. (eg)
G. E. Haraden (abde)
G. H. Harding (a)
R. L. Hardy (a)
M. C. Harrington (eg)
D. L. Harris (cde)
M. F. Harris (c)
L. P. Harrison (c)
P. J. Hart (abh)
S. R. Hart (fh)
J. H. Hawley (e)
F. P. Hellweg (abed)
H. W. Hemple (ae)
R. G. Henderson (ad)
E. L. Hendricks (g)
H. G. Hertz (a)
F. J. Heyden, S.J. (a)
W. E. Hiatt (eg)
C. W. Hoffer (abh)
J. H. Hoffman (df)
A. E. Holdstock (eh)
A. J. Hoskinson (ah)
W. E. W. Howe (dh)
W. G. Hoyt (eg)
M. N. Hunter (c)
C. F. Izzard (g)
J. E. Jackson (d)
W. C. Jacobs (ceg)
M. V. Jamison (acde)
F. D. Jennings (c)
A. Jespersen (df)
H. R. Joesting (dfh)
A. Johnson (g)
C. Y. Johnson (d)
D. S. Johnson (c)
M. A. Johnson (eg)
P. M. Johnston (gh)
W. E. Jones (eg)
T. O. Jones (abcdefgh)
L. A. Joos (ceg)
G. F. Jordan (e)
H. S. Jorgenson (ab)
J. W. Joyce (bdh)
L. V. Judson (ab)
O. W. Kabelac (g)
M. F. Kane (ab)
H. P. Kaufman (a)
O. Kaufman (beh)
D. I. Keen (e)
H. W. Keith, Jr. (abe)
R. B. Kennard (c)
S. K. Kershner (d)
G. H. Keulegan (g)
E. R. King (bdh)
H. B. Kinnison (g)
A. Kochanski (ed)
G. M. Kralik (eg)
R. W. Kreplin (d)
R. F. Kresge (eg)
J. E. Kupperian, Jr. (d)
F. J. Lacny (c)
F. J. Lander (b)
H. E. Landsberg (beh)
W. T. B. Lang (egh)
W. B. Langbein (abedefgh)
R. H. Langford (g)
R. Lebrecht (g)
H. E. LeGrand (abdg)
L. B. Leopold (g)
T. M. LeRoy (cde)
L. A. LeSchack (be)
V. Lewicke (aed)
K. E. Lohman (efh)
W. D. Long (f)
J. R. Longard (e)
S. K. Love (g)
Lyman (e)
F. C. Macdonald (ce)
A. G. Maki, Jr. (h)
S. Manabe (c)
S. Mandarich (ee)
P. W. Mange (d)
G. E. Manger (aefgh)
W. Markowitz (a)
W. N. Martin (a)
A. C. Mason (g)
H. Matheson (bc)
G. L. Maton
G. A. Maul (ceg)
A. E. Maxwell (e)
F. A. Mazeika (e)
A. L. McCahan (adeg)
J. S. McCall (a)
R. J. McGough (ceg)
C. L. McGuinness (g)
E. T. McKnight (f)
B. K. Meade (a)
G. Medina (ae)
J. F. Meekins (d)
E. P. Meisburger (eh)
W. P. Mellen (c)
H. E. Merwin (ef)

J. L. Meuschke (d)
H. A. Meyerhoff (bfgh)
D. L. Mills (a)
G. S. Mitchell (c)
J. M. Mitchell, Jr. (ceg)
E. V. Mohl (ade)
W. L. Molo (c)
A. R. Mooney (befg)
R. C. Moore (d)
R. W. Moore (bdg)
H. F. Morey (g)
K. B. Morrissey (cg)
V. S. Murino (eg)
L. M. Murphy (befh)
C. R. Murray (g)
W. Musselter (a)
D. O. Myatt (eef)
R. M. Myrick (eg)
J. Namias (c)
J. E. Naugle (cd)
J. H. Nelson (bd)
A. C. Neumann (ceg)
E. Newhall (eg)
T. B. Nolan (fh)
S. J. Odend'hal (ah)
H. Odishaw (ed)
H. O. Ogrosky (g)
J. E. O'Hare (ce)
T. M. Okada (cd)
H. W. Oliver (abdeh)
H. Orlin (a)
F. Ostapoff (ce)
D. H. Pack (abcd)
R. M. Page (e)
B. L. Page (a)
J. L. H. Paulhus (c)
W. Paulishak (d)
M. T. Paulson (ae)
A. Peckham (g)
L. Peselnick (bd)
B. J. Peterson (g)
D. L. Peterson (ad)
G. Phair (fh)
D. A. Phoenix (g)
C. Pierce (ae)
M. E. G. Pieters (aeg)
C. B. Pletcher (eg)
D. C. Porta (d)
W. D. Potter (g)
A. T. Price (d)
P. H. Putnins (ceg)
L. O. Quam (eg)
M. C. Rabbitt (bfh)
C. E. Ramser (g)
P. H. Ramsey (ae)
H. S. Rappleye (a)
L. L. Ray (cg)
E. W. Reed (g)
S. G. Reed, Jr. (cde)
F. W. Reichelderfer (e)
D. A. Rice (a)
M. M. Richards (eg)
E. W. Richardson, Jr. (abcdefgh)
M. Rigby (ceg)
G. Rivera-Aponte (ad)
J. B. Roberts (abde)
E. W. Roedder (f)
F. Ronne (abcdefgh)
R. H. Rose (befg)
C. S. Ross (f)
C. W. Ross (e)
M. J. Rubin (c)
I. S. Ruff (cd)
G. S. Ruggles (eg)
L. H. Rumbaugh (bdeh)
S. S. Ruttenberg (d)
T. V. Ryan (e)
T. Saville, Jr. (e)
A. N. Sayre (g)
T. M. Schad (g)
F. Schairer (f)
M. H. Schefer (e)
P. A. Scherer (abcdefgh)
P. L. Schereschewsky (ed)
W. G. Schlecht (fh)
R. W. Schloemer (eg)
E. Schmid (e)
W. L. Schmitt (e)
R. Schneider (g)
A. H. Schooley (ce)
P. Schureman (e)
R. W. Seaton (d)
C. R. Seeger (abcdefgh)
P. E. Seelinger (eg)
A. L. Shalowitz (e)
J. T. C. Shen (gh)
J. Sherrod (e)
A. J. Shneiderov (bd)
W. Shofnos (ae)
M. Siegrist (befh)
L. G. Simmons (a)
E. S. Simpson (g)
E. Z. Sinha (abg)
F. D. Sisler (e)
J. M. Small (a)
J. W. Smith (bde)
V. B. Smith (abg)
W. E. Smith (abcdefgh)
C. P. Sonett (d)
J. L. Speert (aeg)
H. C. Spicer (bdfh)
R. B. Starr (e)
J. L. Stearn (a)
J. S. Steinhart (abd)
H. B. Stewart, Jr. (e)
V. T. Stringfield (g)
J. S. Sweet (eg)
B. Swenson (eg)
H. A. Swenson (g)
D. M. Swingle (cd)
E. A. Taylor (a)
M. H. Taylor (eg)
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S. Tewfles (cd)
G. C. Tewinkel (abde)
W. J. Thaler (de)
T. P. Thayer (fh)
H. E. Thomas (g)
P. D. Thomas (a)
R. O. Thomas (eg)
H. G. Thomasson (eg)
H. J. Thompson (eg)
J. C. Thompson (c)
John T. Thompson & Co.
G. R. Tilton (f)
L. W. Tourville (e)
R. Tousey (cd)
A. F. Trei (abd)
J. V. E. Trumbull (e)
M. A. Tuve (d)
L. C. Van Atta (abcdefgh)
B. Van Mater (abcdefgh)
F. W. van Straten (c)
E. M. Vernon (e)
J. P. Vinti (ad)
H. H. Waesche (bf)
H. A. Waite (acgh)
C. L. R. Walke (g)
S. J. Ware (eg)
L. F. Warrick (g)
J. S. Watkins (gh)
C. B. Watts (a)
G. M. Watts (eg)
T. J. Wehe (cog)
F. G. Wells (fgh)
D. E. Westbrook (a)
R. W. Whipple (a)
J. C. Whitaker (h)
F. D. White (ce)
C. A. Whitten (a)
W. K. Widger, Jr. (e)
J. B. Wiesner (d)
B. W. Wilcox (f)
G. E. Willeke (g)
A. H. Williams (g)
E. L. Williams, Jr. (e)
J. W. Winchester (ce)
W. J. Wittmann (ce)
D. R. Wones (f)
D. P. Woodall, Jr. (cef)
W. E. Wrather (acefg)
H. S. Yoder, Jr. (cef)
G. A. Young (d)
J. F. P. Zengel (d)
B. D. Zetler (e)
R. E. Ziegler (bcde)

FLORIDA

COCOA BEACH
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H. Bader (g)
M. A. Hakeem (cd)
H. W. Hiser (acg)
W. C. Lamb (bdh)
V. G. Sleight (befh)
A. H. Smith, Jr. (bdh)
B. A. Tator (cd)

EAU GALLIE
A. R. Beach (d)

EGLIN AFB
H. W. Leaf (abcdefgh)

FORT LAUDERDALE
W. D. Mason (cg)
J. C. Stephens (g)
H. T. Stetson (abcdeh)

FORT PIERCE
O. H. Gish (cdfh)

FORT WALTON BEACH
P. M. Fitzpatrick (de)

GAINESVILLE
S. S. Ballard (df)
J. I. G. Bengochea (g)
P. M. Bruun (e)
K. D. Butson (cg)
T. D. Carr (d)
W. E. Clark (g)
C. G. Edson (cg)
J. B. Foster (fg)
M. H. Latour (cd)
W. H. Pierson (c)
T. Saville (ceg)
N. F. Six, Jr. (d)
A. G. Smith (d)

GULF BREEZE
T. L. Lowery (cg)

HIALEAH
R. B. Hall (ah)
J. O. Sneed (cd)

INDIALANTIC
A. Corpaciu (abcde)

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L. A. Farrer (eg)
T. H. Haeussner (ceg)
S. P. Krolczyk (ce)
E. H. Miller (g)
W. N. Moreland (eg)
C. L. Nowlin (g)

KEY WEST
W. E. van Goidtsnoven (abef)

LAKELAND
F. W. Meyer (bgh)
W. S. Wetterhall (beg)

LARGO
H. S. Shaw (acde)

LYNN HAVEN
K. L. Sherman (edh)

MELBOURNE
D. Brown (a)
W. R. Drake (bde)
L. C. Hayden, Jr. (d)
M. L. Modell (acde)

MIAMI
L. F. Conover (cg)
G. E. Dunn (ce)
N. L. Frank (c)
K. C. Gentry (e)
D. H. Gould (e)
H. Klein (g)
F. A. Kohout (g)
H. E. Kumpf (ce)
J. D. Lumby (e)
M. O. Rinkel (ce)
F. G. W. Smith (e)
P. Sollenberger (a)

MIAMI BEACH
S. Broida (e)

MOUNT DORA
C. L. Schroll (befh)
M. R. Stackpole (g)

OCALA
K. A. MacKichan (g)
C. G. Menke (g)

OPA-LOCKA
M. H. Gilmore (bdh)

ORLANDO
J. H. Fyten (adfh)
W. F. Lichtler (g)
C. B. Sharp (ac)
B. J. Sherry (c)
W. R. Stevens (c)
C. T. Whalen (ade)

PALM BAY
L. L. Behrendt (e)

PANAMA CITY
G. B. Austin, Jr. (e)
G. B. Dowling (e)
E. A. Hogge (d)
D. E. Letaring (aeg)
E. G. McLeroy, Jr. (be)
D. P. Scott (bde)
W. H. Tolbert (eg)
T. C. Watson (e)
E. A. Wilbanks (cd)

PATRICK AFB
J. A. Sutorik (ed)

PENSACOLA
W. E. Moore (eh)

PENSACOLA BEACH
J. T. Barraclough (g)

POMPANO BEACH
A. D. Wandke (fh)

ST. PETERSBURG
E. S. Cullings (g)

SARASOTA
A. G. Matthews (eg)
T. E. Stewart (d)

TALLAHASSEE
W. A. Baum (eeg)
J. S. Beazley (a)
R. J. Berkley (bd)
D. W. Brown (eg)
H. H. Cooper, Jr. (g)
R. A. Craig (cde)
T. A. Gleeson (c)
D. S. Goraline (ef)
H. Gunter (adeg)
H. G. Healy (g)
S. L. Hess (c)
T. Ichiye (ceg)
C. L. Jordan (c)
F. C. Mohler (g)
R. J. Renard (c)
M. I. Rorabaugh (g)
W. F. Tanner (cegh)
R. O. Vernon (abdefg)
N. E. Weisbord (acefg)
J. Wiggert (cd)
E. J. Zipser (c)

TAMPA
R. L. Leep, Jr. (c)
V. R. Sobieralski (a)

VIRGINIA KEY
T. R. Goedicke (beh)
F. F. Koczy (efh)

WEST PALM BEACH
H. C. Gibson, Jr. (ce)

WINTER PARK
D. Anthony (a)
P. E. Needham (ad)
K. D. Negus, Jr. (a)
E. J. Parkin (ac)

GEORGIA

ALBANY
S. D. Owen (a)
F. B. Schmittker (a)
G. R. Woodring (a)

AMERICUS
J. L. Ferguson (e)

ATHENS
R. L. Bowen (abdefgh)
N. J. Goode, Jr. (ceg)
J. A. Shear (ce)

ATLANTA
H. W. Adams (eg)
A. L. Bennett (cd)
M. R. Carstens (g)
H. D. Edwards (ed)
B. M. Hall, Jr. (cg)
D. B. Jones (g)
F. H. Larson (g)
J. G. Lester (fh)
C. P. Lindner (g)
M. L. Meeks (d)
G. M. Slaughter (g)
H. W. Straley, III (abcdefgh)
H. J. Tracy (g)
D. E. Whelan (abcdefgh)
W. T. Wilson (eg)

AUGUSTA
W. E. Fox (eg)
H. Raynes (eg)

BRUNSWICK
R. L. Wait (g)

DILLARD
L. W. Swift, Jr. (eg)

FOREST PARK
O. J. Baldwin (cg)
L. P. Gibbon (a)

MACON
W. L. Fons (cg)
W. H. Miller (e)

SAPELO ISLAND
V. J. Henry, Jr. (e)

SAVANNAH
H. B. Counts (g)
De C. Martin, Jr. (ef)

WATKINSVILLE
D. G. Harris (c)

GUAM

AGANA
J. Mintz (ed)

HAWAII

EWA BEACH
C. D. Upham (abde)

HANALEI
J. B. Cox (g)

HAWAIIAN NATIONAL PARK
W. U. Ault (f)
J. P. Eaton (bf)
C. K. Wentworth (eg)

HONOLULU
T. S. Austin (e)
R. A. Barkley (e)
L. D. Baver (g)
D. I. Blumenstock (e)
H. W. Brodie (c)
H. J. Coolidge (abcdefgh)
D. C. Cox (bcefgh)
R. H. Cox (g)
D. A. Davis (gh)
P. C. Ekern, Jr. (cg)
M. A. Estoque (ce)
G. Y. Ewart (g)
A. J. Furumoto (bh)
R. P. Hall (abcdefgh)
L. H. Herschler (g)
G. T. Hirashima (cg)
H. M. Johnson (ceg)
L. S. Lau (g)
R. L. Lavoie (c)
H. S. Leak (g)
D. Lum (ab)
G. A. Macdonald (bfh)
H. C. McAllister (d)
L. E. Miller (abcdefgh)
J. F. Mink (efg)
R. M. Moberly, Jr. (eh)
J. J. Naughton (f)
A. Ogata (cg)
M. M. Orgill (c)
E. G. Pearson (g)
A. V. Pierson (c)
S. Price (ce)
C. S. Ramage (ceg)
G. R. Seckel (eg)
R. L. Smith (d)
W. R. Steiger (d)
K. J. Takasaki (eg)
S. Valenciano (g)
B. D. van't Woudt (g)
F. N. Visher (g)
H. A. Wadsworth (g)
K. Watanabe (d)

KAILUA
R. R. Griswold (g)
R. H. Johnson (be)
R. V. Oehler (g)
J. Vederman (c)

KUNIA
A. A. White (abcdefgh)

PALA
R. H. Taylor (cg)

PUUNENE
J. M. Langa (cg)

IDAHO

BOISE
H. A. Allen (befgh)
K. E. Anderson (fgh)
C. F. Cooper (g)
I. E. Fletcher (g)
H. D. Hafterson (cg)
H. F. Haupt (cg)
D. M. Little (c)
M. J. Mundorff (cgh)
E. L. Neff (g)
M. W. Nelson (g)
W. R. Wagner (fh)

IDAHO FALLS
R. K. Dumbauld (c)
P. H. Jones (g)
F. H. Olmsted (fg)

MOSCOW
G. L. Corey (cg)
J. W. Crosby, III (bfg)
D. W. Hendricks (g)
J. V. Jordan (g)
J. S. Kim (d)
C. C. Warnick (g)

MOUNTAIN HOME AFB
L. R. Matthews (ace)

POCATELLO
D. W. Brown (bdf)
A. Isotoff (f)
S. R. Meadows (acdg)

ILLINOIS

ARGONNE
H. Moses (c)

ARLINGTON HEIGHTS
K. H. Seelandt (ed)

BATAVIA
J. Bruin (g)

CARBONDALE
S. E. Harris, Jr. (eg)

CASEYVILLE
T. V. McEvilly (abd)

CENTRALIA
J. L. Lester (h)

CHAMPAIGN
W. S. Daniels (g)
F. A. Huff (c)
W. D. Mitchell (g)
W. J. Roberts (cg)
W. D. Rose (gh)
P. R. Seaber (g)
G. E. Stout (cg)

CHICAGO
V. K. Ablordeppey (bdef)
B. Ackerman (cdeg)
E. Anders (f)
F. Baer (c)
E. W. Barrett (c)
N. C. Beck (c)
E. E. Bergman (dh)
R. G. Berk (cg)
G. E. Birchfield (c)
H. A. Brown (ce)
R. A. Brown (c)
H. R. Byers (ceg)
R. N. Clayton (f)
R. G. D'Arcy (ed)
J. W. Dixon (g)
S.-S. Fan (cg)
D. R. Fitzgerald (cd)
T. Fujita (c)
J. R. Fulks (c)
D. Fultz (c)
J. L. Goldman (c)
C. M. Haaland (d)
H. R. Heydegger (f)
H. Hoskins (e)
E. L. Hubbard (cd)
M. Jakaitis (a)
J. C. Jamieson (bdfh)
A. Kasahara (ce)
R. E. Kaylor (c)
V. A. Koelzer (cg)
M. S. Kozlik (acd)
G. W. Laurie, Jr. (g)
M. E. Lipschutz (efh)
C. S. Littlejohn (d)
D. S. H. Louie (g)
P. Meyer (d)
Motorola, Inc.
C. A. Nanney (b)
W. H. Newhouse (f)
E. N. Parker
M. Paul (c)
S. Pettersssen (ce)
J. M. Pierrard (ce)
G. W. Platzman (c)
L. Reiffel (d)
J. D. Roll, S. J. (b)
J. Rosinski (cf)
M. S. Sachs (g)
J. A. Simpson (d)
R. B. Singh (aeg)
R. L. Slater, Jr. (c)
E. C. Stone, Jr. (d)
R. E. Vogt (d)
W. A. Whitaker (d)
G. F. White (g)
R. Wright (fh)

COLLINSVILLE
E. J. Hauer, Jr. (a)

CRYSTAL LAKE
I. H. Cram, Jr. (beh)
Pure Oil Co.
H. A. Slack

DEERFIELD
R. S. John, Jr. (c)

DE KALB
L. T. Caldwell (acefh)
J. D. Martinez (abdgh)
J. H. Ross (f)
E. B. Shykind (g)
J. R. Stinson (c)

DES PLAINES
J. F. Wiss (bg)

EAST ST. LOUIS
C. R. Greenwalt (a)
D. N. Huber (a)
N. B. Kastler (ae)

EFFINGHAM
H. H. Luttrell (bf)

ELMHURST
E. H. Martin (c)

EL PASO
R. K. Morse (bg)

EVANSTON
A. Assur (ceg)
P. H. Barnwell (ed)
D. V. Chandrasekhara (g)
E. C. Dapples (eg)
E. B. Espenshade, Jr. (ee)
W. S. Hamilton (cg)
A. L. Howland (f)
J. E. Jenkins (b)
W. C. Krumbein (efg)
L. H. Nobles (gh)
J. O. Osterberg (bg)
E. E. Pyatt (eg)
L. L. Sloss (eh)
J. Weertman (gh)
E. H. T. Whitten (fh)

FLOSSMOOR
D. J. Brumley (g)

GLENVIEW
R. W. Gerdel (cg)

HIGHLAND PARK
H. F. Lawhead (abc)

LAGRANGE
P. J. Lucey (acg)

LEBANON
H. S. Appleman (cd)
R. D. Fletcher (ceg)
H. H. McDaniel (ed)
G. H. Stadakkev (c)

LOMBARD
I. W. Brunk (cg)

MOLINE
L. A. Carlson (g)
W. Dick (cg)

MOUNT CARMEL
C. S. Sharp (a)

NORTHBROOK
B. L. Hansen (cg)

O'FALLON
W. A. Jenner (cg)

OTTAWA
H.-Y. Fang (bg)

PALATINE
K. J. Zentner (g)

PARK RIDGE
W. A. Bohan (ce)
P. H. Wyckoff (d)

PAXTON
H. W. Schwartz (c)

PEORIA
R. H. Harmeson (g)
D. H. Schnepper (bg)

RANTOUL
T. C. Jafferis (c)

RIVERSIDE
R. R. Braham, Jr. (c)

SCOTT AFB
R. F. Durbin (cg)
N. L. Peterson (c)

SKOKIE
J. R. Murray (c)
D. W. Trettel (c)

SOUTH HOLLAND
J. E. Lamport (d)

SPRINGFIELD
T. B. Casey (g)
L. C. Christensen (c)
R. F. Spanski (eg)

STREATOR
C. N. Johnston (g)

SYCAMORE
E. G. Astling (cf)

URBANA
W. C. Ackermann (cg)
R. E. Aten (g)
E. P. Bialecke (d)
W. R. Boggess (g)
W. F. Bradley (fh)
V. T. Chow (g)
S. Csallany (fg)
D. U. Deere (eg)
H. G. Drickamer (f)
D. L. Graf (ef)
J. C. Guillou (g)
J. W. Hawley (g)
E. C. Hayden (d)
R. W. Heins (bfg)
J. L. Hough (egh)
E. C. Jordan (cd)
H. M. Karara (a)
A. Klute (g)
F. L. Koucky (ah)
G. B. Maxey (g)
R. L. McFall (cg)
L. D. McGinnis (b)
B. J. Muga (ceg)
K. V. Narasingarao (ed)
J. E. Pearson (c)
D. C. N. Robb (ceg)
J. M. Robertson (ceg)
A. P. Ruotsala (fh)
M. O. Schmidt (ah)
R. G. Semonin (e)
H. F. Smith (g)
J. B. Stall (g)
R. R. Storm (dg)
V. Tuman (ab)
W. C. Walton (g)
H. R. Wanless (bcefgh)
H. D. Webb (cd)
K. C. Yeh (d)

WESTCHESTER
N. Glyptis (adeh)

WHEATON
J. H. Krakevik (ed)
J. K. Munro, Jr. (d)

WILMETTE
I. A. Bender (g)
C. C. Langway, Jr. (efg)

INDIANA

BLOOMINGTON
R. F. Blakely (bcd)
J. Mead (bd)
S. S. Visher (cg)
D. B. Vitaliano (f)

CARMEL
J. D. Hunn (fgh)
J. S. Rosenshein (bfgh)

COLUMBUS
G. F. Hendricks (g)

ELKHART
W. F. McDonald (ceg)

EVANSVILLE
S. W. Rampy (cg)
H. Simmons (cg)

FORT WAYNE
J. B. Fisher (abdefh)

GRABILL
S. R. Schwartz (f)

GREENCASTLE
C. L. Bieber (bc)

HANOVER
C. Adams (abcdefgh)

INDIANAPOLIS
M. C. Boyer (g)
D. G. Jordan (ag)
J. L. Ferrey (g)
C. M. Roberts (fgh)
R. J. Vig (fgh)
F. A. Watkins, Jr. (abg)
LAFAYETTE
J. W. Delleur (g)
E. J. Monke (g)
D. Swartzendruber (cg)
W. H. Wischmeier (g)
NOTRE DAME
A. J. MacAlpin (beefgh)
PAOLI
W. E. Austin (g)
PLAINFIELD
W. J. Andrews (g)
SOUTH BEND
S. Kolupaila (g)
TERRE HAUTE
R. H. F. Pao (g)
VALPARAISO
A. W. Manning (d)
WHITING
P. C. Roop (cg)

IOWA

AMES
G. W. Fox (bed)
C. R. Jensen (cg)
H. P. Johnson (g)
D. Kirkham (cg)
R. J. Kunze (cg)
L. V. A. Sendlein (bg)
R. H. Shaw (cg)
CEDAR RAPIDS
J. E. Kasper (d)
DAVENPORT
C. V. Pierce (abefgh)
DES MOINES
R. I. Bucknell (abd)
M. D. Dougal (cg)
C. E. Lamoureux (c)
IOWA CITY
L. M. Brush, Jr. (cegh)
P. Chang (d)
C. D. Crandall (cd)
F. M. Dawson (eg)
R. W. Fillius (d)
H. G. Hershey (cfgh)
R. A. Hoppin (bfh)
J. W. Howe (g)
N. E. Kass (ad)
H. J. Koloseus (ceg)
C. D. Laughlin (d)
W.-C. Lin (d)
C. E. McIlwain (d)
C. E. Nichols (fg)
E. Norbeck, Jr. (cde)
G. Pizzella (d)
E. C. Fogge (g)
C. J. Posey (g)
E. C. Ray (d)
J. J. Runner (fh)
R. W. Rush (e)
A. C. Tester (eg)
A. C. Trowbridge (cefgh)
J. A. Van Allen (cd)
D. Venkatesan (d)
RED OAK
F. R. Jones (c)

KANSAS

FREDONIA
W. L. Stryker (adfh)
GARDEN CITY
W. R. Meyer (g)
HAYS
F. R. Beck (abcdefgh)
KANSAS CITY
C. F. Chow (c)
LAWRENCE
E. E. Angino (f)
F. C. Bates (c)
V. C. Fishel (c)
F. C. Foley (g)
W. W. Hambleton (adf)
L. R. Hathaway (f)
A. E. W. Ibrahim (abdgh)
J. A. Peoples, Jr. (bdeh)
L. B. Ronca (bfh)
F. S. Rowland (f)
MANHATTAN
L. D. Bark (e)
W. S. Chepil (cg)
E. R. Lyon (d)
MERRIAM
R. A. Sanders (c)
PRAIRIE VILLAGE
J. P. McCallister (g)
H. C. McComb (bcg)
SALINA
C. D. Albert (g)
W. D. Waterman (g)
TOPEKA
L. W. Furness (cg)
W. S. Kerby (g)
C. E. Nuzman (g)
J. A. Power, Jr. (cg)
J. E. Schrock (abcdefgh)
M. L. Thompson (cg)
D. R. Whitman (eg)
WICHITA
J. R. Berg (fh)
G. J. Stramel (g)
R. F. Walters (gh)

KENTUCKY

BOWLING GREEN
F. R. Shawe (fh)
DANVILLE
R. Ellis (ce)
HAZARD
H. Szczepankiewicz (bfgh)
HENDERSON
I. B. Browning, Jr. (df)
LEXINGTON
K. O. Lange (c)
LOUISVILLE
O. K. Anderson (cg)
R. V. Cushman (fgh)
S. O. Hammon (b)
F. B. Harkness (cgh)
G. A. Kirkpatrick (g)
C. B. Lee (cg)
J. E. Lewis (eg)
W. E. Price (g)
F. F. Schrader (g)
W. Stosser (cg)
A. F. Thiele (cg)
McHENRY
B. R. Allen (c)
PIKEVILLE
W. F. Outerbridge (f)
WILLIAMSBURG
C. H. Minehan (g)

LOUISIANA

ALEXANDRIA
M. W. Gwinner (cg)
BARKSDALE AFB
D. W. Lea (ceg)
BATON ROUGE
H. B. Brown, Jr. (abcefgh)
C. O. Durham, Jr. (abcefh)
F. N. Hansen (g)
H. N. Harrison, Jr. (aeg)
J. W. Higgs, Jr. (g)
H. V. Howe (abdefgh)
J. Huner, Jr. (eh)
H. E. Kleinpeter (aeg)
J. W. Lipscomb (d)
R. A. Long (fh)
R. R. Meyer (g)
L. M. Odom (cg)
R. J. Russell (acegh)
BOSSIER CITY
G. W. Vick, Jr. (c)
HARAHAN
A. A. Meyerhoff (h)
HOUMA
G. Augustat (h)
LAFAYETTE
D. A. DeWoody (b)
J. Etter (e)
D. M. Fulcher (bf)
MANY
E. M. Miller (g)
NEW ORLEANS
G. I. Atwater (bh)
F. A. Benedetto, S. J. (d)
R. B. Brockhouse (e)
W. J. Gelineau (ef)
A. H. Glenn (ceg)
C. H. Gregory (abh)
C. F. Grubb (bh)
W. W. Hays (ad)
H. J. Howe (h)
H. M. Johnson (abdeh)
K. A. Maring, S.J. (b)
J. M. Nash (h)
W. S. Pike, Jr. (bfh)
G. A. Roussel (a)
F. E. Simmons, Jr. (g)
J. C. van Wynen (bh)
PINEVILLE
A. H. Harder (g)
RUSTON
R. M. Allen (g)
SHREVEPORT
G. J. Baker (dh)
P. A. Bloomer, Jr. (bh)
R. W. Carter (bfh)
J. M. Forgotson (bdfh)
D. T. MacRoberts (cg)
H. I. Meyer
C. Q. Miller (f)
R. R. Rosenkrans (bfh)
M. E. Tiemann (a)
United Gas Corp.
C. N. Valerius (h)
VIDALIA
R. A. Campbell (bde)

MAINE

AUGUSTA
G. C. Prescott, Jr. (g)
NORTH BERWICK
E. E. Smith (c)
NORTH VASSALBORO
T. Moore (ac)
OLD TOWN
L. A. Wing (h)
PORTLAND
C. Chibka (eg)
R. D. Ogg (e)
PROSPECT HARBOR
C. F. Merriam (g)

MARYLAND

ABERDEEN
J. M. Conley (d)
ABERDEEN PROVING GROUNDS
B. T. Bentley (ad)
W. W. Berning (e)
C. W. Lampson (bc)
J. C. Mester (cd)
B. Perkins, Jr. (abcdfh)
ACCOKEEK
L. O. Hayden (acd)
G. F. Hinton (d)
W. L. Petrie (abdefh)
G. P. Serbu (d)
J. Q. Tierney (e)
ADELPHI
W. J. Callahan (d)
W. J. Dichtel (d)
R. Gornitzky (a)
ANNAPOLIS
W. F. Anderson (cd)
R. W. Fett (c)
F. K. Mack (bg)
P. V. H. Weems (ae)
S. D. Thayer (c)
ARMY CHEMICAL CENTER
US ACC Nuclear Defense Lab.
ARNOLD
J. Williams (e)
BALTIMORE
J. N. Adkins (bd)
G. S. Benton (ceg)
D. B. Biser, Jr. (cg)
M. K. Blaustein (fgh)
E. E. Caldwell (d)
J. H. Carpenter (e)
T. J. Carroll (cd)
G. P. Dix
G. P. Dix, Jr. (efg)
H. H. Engelbrecht (g)
O. Gates (ef)
J. C. Geyer (ceg)
A. L. Glass (befg)
B. Kinsman (e)
J. J. Kramp (a)
J. J. Lentz (ceg)
Martin Co.
D. A. Mazzarella (c)
R. B. Montgomery (e)
T. W. Musser (ce)
D. W. Pritchard (ce)
C. E. Renn (e)
W. H. Rhodes (d)
C. A. Richardson (g)
C. O. Riggs (cd)
I. Roman (abdh)
J. R. Schubel (e)
J. W. Siegmund (eg)
J. T. Singewald, Jr. (abfgh)
T. H. Slaughter (eg)
J. Strong (c)
W. D. Sutcliffe (ah)
A. Wolman (cg)
M. G. Wyman (g)
C. A. Zapffe (ef)
BEL AIR
J. D. Wilcox (eg)
BELTSVILLE
R. G. Andrews (g)
D. L. Brakensiek (g)
H. C. Fletcher (fgh)
A. F. Geiger (g)
J. M. Headrick (d)
J. N. Holeman (g)
H. N. Holtan (abcg)
L. L. Kelly (eg)
H. Klemic (bdgh)
D. D. Smith (g)
D. W. Swanson (ceg)
BERWYN HEIGHTS
W. H. Sammons (cg)
BETHESDA
H. K. Armstrong (g)
C. I. Aslakson (abcde)
F. B. Barkalow (g)
C. W. Beckett (abcdefgh)
J. H. Brittain (ae)
C. R. Burrows (cd)
S. H. Clark (d)
J. P. Craven (e)
D. B. Doan (eh)
J. H. Eberly (c)
H. W. Frantz (abcdefgh)
S. V. Griffith (ag)
R. C. Grubb (cg)
C. Harmantas (c)
L. A. Heindl (fg)
W. C. Hendrix (de)
J. Z. Holland (c)
J. Hughes (c)
H. A. Karo (abde)
W. H. Klein (c)
D. R. Krimgold (g)
C. E. Lewald (g)
N. E. Manos (c)
E. C. McKay (ae)
G. W. Morey (f)
R. L. Nace (gh)
T. J. Norrenenson (g)
V. D. Rockney (c)
W. H. Simonson (acg)
R. H. Simpson (c)
M. J. Stoller (acd)
H. C. Storey (cfg)
K. L. Svendsen (d)
H. S. Thomas, Jr. (g)
O. W. Torreson (d)
E. W. Weber (ag)
L. K. Wenzel (g)
D. R. Woodward (g)
W. E. Yost, Jr. (d)
BRANDYWINE
K. F. Fanning (ah)
BURTONSVILLE
D. E. Fogelson (abe)
W. H. McInteer (e)
CABIN JOHN
E. M. Sodano (a)
CAMBRIDGE
J. E. Harvey, Jr. (e)

CAMP SPRINGS
D. C. Scull (abd)

CAPITOL HEIGHTS
C. H. Swick (aeh)

CHEVERLY
W. S. Davis (ac)
S. G. Gathman (cd)
R. M. Holcombe (c)
B. E. Olsen (ce)
J. H. Willett (aeh)

CHEVY CHASE
M. F. Burrill (e)
P. Crosby (fh)
R. E. Gibson (df)
R. S. Goodridge (cg)
L. Hurwitz (abd)
C. H. Jennings (cg)
E. A. Johnson (dh)
H. F. Johnston (abcdefgh)
H. S. Ladd (ef)
G. D. Lukes (cd)
M. A. Mason (eg)
A. G. McNish (cdfh)
R. H. Randall (ae)
J. M. Symons (e)
R. H. Weightman (c)
G. D. Whitmore (a)
J. S. Winston (c)
E. G. Zies (ef)

CLINTON
R. B. Abel (e)
M. D. Burkhart (ce)

COLLEGE PARK
J. Bohse (d)
J. M. Burgers (befh)
J. M. Darling (g)
R. F. Fellows (df)
H. W. Hobbs, Sr. (cg)
M. Katzin (cde)
H. J. Laster (d)
A. M. Lenchek (d)
W. M. MacDonald (cd)
F. T. Mavis (g)
H. N. Meeks (abh)
J. W. Odell (g)
L. Pavlides (befh)
S. P. Singer (d)
D. Stern (d)
D. A. Tidman (d)
W. L. Tressler (e)
W. W. Zachary (acde)

DARLINGTON
H. H. Schmid (ad)

DISTRICT HEIGHTS
W. Chimiak (e)

EASTON
E. O. Hulburt (de)

EAST RIVERDALE
W. C. Spreen (cg)

GARRETT PARK
F. L. Weaver (g)

GERMANTOWN
R. Hamburger (adfh)

GREENBELT
D. A. Bryant (d)
T. L. Cline (d)
E. W. Coffay (g)
L. R. Davis (d)
C. E. Fichtel (d)
D. A. Kniffen (d)
J. C. Lindsay (cd)
C. W. McCracken (d)
F. B. McDonald (d)
W. Nordberg (cd)
K. W. Ogilvie (d)
T. L. Skillman (bd)
J. W. Townsend, Jr. (ac)
C. J. Waddington (d)
J. M. Williamson (d)

HAGERSTOWN
H. N. Eaton (eg)

HARWOOD
G. Leifson (ae)

HAVRE DE GRACE
E. J. Pybus (cd)
A. A. Thompson (bc)

HIGHLAND
M. E. Scheidt (ceg)

HYATTSVILLE
R. M. Beall (cg)
C. D. Bue (cg)
J. C. Cain (ed)
C. H. Hardison (cg)
G. A. Hathaway (cgh)
E. W. Irre, Jr. (abde)
B. J. Lieske (ceg)
W. N. Mollard (cd)
K. M. Nagler (e)
R. S. Norton, Jr. (g)
C. M. Patterson (cg)
G. C. Sherlin, Jr. (cdg)
A. B. Taylor (g)
R. N. Wilson (g)
R. T. Zoch (cg)

JOPPA
G. A. Dulk (cd)

KENSINGTON
D. H. Clements (bdeh)
R. W. Davenport (g)
R. C. Doolittle (abdfh)
J. G. Ferris (g)
N. FitzSimons (abdfgh)
C. H. Gaum (g)
D. M. Hershfield (cg)
R. L. Hobba (g)
H. E. Newell, Jr. (ed)
R. C. Peavey (d)
J. R. Randolph (cg)
R. D. Tarble (cg)
H. Weiner (cde)

LANHAM
C. S. Scofield (g)

LEXINGTON PARK
C. S. Piggot (ef)

LUTHERVILLE
T. J. Dobry, Jr. (acdh)
J. H. Swarts (abcdefgh)

OWINGS MILLS
F. W. Lee (abcdefgh)

PERRYMAN
R. E. Prenatt (ed)
W. H. Townsend (bc)

PIKESVILLE
S. L. Russak (cg)

PORT REPUBLIC
S. Karrer (abcdefgh)

RIVERDALE
M. O. F. Schroeder (ce)

ROCK HALL
C. D. Greene (ce)

ROCKVILLE
V. J. Cushing (bd)
W. S. Filler (c)
H. H. Malitson (d)
B. W. Maxwell (eg)
F. G. Rueter (befh)
R. P. Savage (e)
J. R. Sievers (bcdeg)
E. S. Thompson (cg)
J. W. Wark (g)

SEABROOK
R. W. Bryant (ad)
W. M. Kaula (a)

SILVER SPRING
L. R. Alldredge (d)
A. E. Bailie (a)
W. R. Bandeen (c)
S. J. Bauer (ed)
C. O. Bostrom (d)
C. B. Brown (g)
D. D. Cattani (d)
B. H. Chovitz (a)
J. F. Clark (cd)
W. E. Cobb (c)
R. H. Cramer (abde)
J. L. Crone (cd)
W. J. Dempsey (d)
W. J. Duvall (bh)
W. W. Elam (c)
G. T. Faust (bf)
F. G. Finger (c)
A. L. Forst (c)
L. M. Glymph, Jr. (g)
M. B. Greenlee (ad)
J. C. Harrold (g)
S. G. Heidel (g)
J. P. Heppner (bcdh)
F. T. Heuring (ad)
M. Hooker (fh)
H. M. Hoover (e)
R. Horowitz (cd)
R. P. Ireland (g)
R. A. Jachowski (abefgh)
R. Jastrow (d)
B. L. Johnson (abcdefgh)
I. Katz (c)
G. Kelton (bc)
D. G. Knapp (d)
M. A. Kohler (cg)
W. V. Lamoreux (cg)
W. S. Lanterman, Jr. (c)
G. H. Ludwig (d)
G. J. F. MacDonald (bfh)
K. Maeda (cd)
W. Malkin (bcdeg)
S. L. Malurkar (bcde)
J. M. Martin (b)
D. P. Martineau (ce)
E. B. Meadows (cd)
J. T. Mengel (a)
L. H. Meredith (d)
P. Musen (a)
N. F. Ness (bd)
R. R. Newton (a)
D. L. Ockert (a)
J. A. O'Keefe (a)
C. L. Parsons (d)
G. F. Pieper (d)
R. Raspet (bcdf)
C. W. Reck (g)
E. C. Robertson (h)
R. W. Rochelle (d)
A. Rosenbloom (cgh)
E. O. Schonstedt (d)
J. Schroeder (e)
H. E. Schwarz (g)
D. D. Smith (d)
W. O. Smith (dgh)
B. L. Snavely (be)
I. Solomon (c)
N. W. Spencer (e)
M. J. Swetnick (d)
R. J. Urick (be)
R. D. Watson, Jr. (bde)
G. C. Weiffenbach (ad)
M. Weinstein (cd)
W. T. Whelan (ed)
V. L. Williams (d)
G. A. Young (ce)
A. J. Zmuda (d)

SUITLAND
J. Badner (e)
M. S. Berryman (e)
E. L. Bialek (e)
K. Bryan (ce)
P. F. Clapp (e)
J. K. Duncan (def)
J. G. Hankins, Jr. (ad)
M. N. Hollack (aceg)
M. E. Myers (e)
F. J. Reynolds, Jr. (a)
R. Richter (bgh)
E. J. Saltsman (c)
H. C. S. Thom (cg)

TAKOMA PARK
I. Fischer (a)
C. E. Wise, Jr. (abc)

TOWSON
E. Cloos (bfh)

TRACY'S LANDING
L. A. Bloom (a)

WASHINGTON GROVE
L. E. Shmidl (a)

MASSACHUSETTS

ACTON
G. Perry, III (c)

AMESBURY
E. H. Shenton (ae)

AMHERST
A. Arons (ce)
B. B. Benson (e)
C. E. Carver, Jr. (ceg)
G. A. Marston (acg)
D. V. Waddington (g)
G. W. Webb (abcdefgh)

ANDOVER
P. M. DuBois (d)

ARLINGTON
E. T. Allen (f)
E. N. Dulaney (d)
J. H. Frey (bh)
G. A. Guy (c)
I. A. Lund (c)
R. A. Minzner (e)
C. H. Pierce (c)
R. R. Rumer, Jr. (eg)
K. C. Spengler (ceg)
B. A. Warren (bcde)

BEDFORD
J. Aarons (d)
K. S. W. Champion (ed)
T. D. N. Douthit (bd)
D. Eckhardt (bdh)
W. P. Elliott (ce)
J. E. Gallagher (c)
Geophysics Corp. of America
P. G. Goldberg (ed)
R. A. Gray (b)
M. Greenberg (c)
P. J. Harney (e)
B. G. Holzman (cg)
I. I. King (c)
H. B. Knaflich (ed)
N. J. Macdonald (e)
J. H. Meyer (ce)
G. Ohring (cde)
E. Radner (e)
W. P. Reidy (ad)
H. K. Sen (ed)
V. J. Stakutis (ce)
H. E. Stubbs (d)
W. Tang (c)
R. C. Wanta (cde)
M. L. White (d)
M. S. Wong (d)

BELMONT
M. L. Barad (c)
R. M. Chapman (c)
P. A. Drinker (eg)
M. Glass (c)
J. S. Lawson, Jr. (ce)
W. R. Mercer (abde)
E. Orowan (b)
K. R. Toman (d)
R. H. Woodward (d)

BILLERICA
T. E. Masoner (d)

BOSTON
E. N. Ashley, Jr. (dh)
I. N. Curtis (g)
K. Foster (ad)
O. M. Hackett (efg)
J. C. Hart (bd)
J. E. Hobson (bd)
P. F. Howard (g)
G. Kantor (e)
C. A. Kaye (efh)
C. E. Knox (g)
M. Loewenthal (ed)
Chas. T. Main, Inc.
G. W. Nolan, S. J. (bd)
J. W. Raymond, Jr. (g)
G. R. Rich
J. F. Roach (d)
H. G. Senning, Jr. (dgh)
R. M. Snow (cde)
R. D. Stuart (edh)
H. M. Turner (g)
W. F. Ubl (g)
C. W. Wolfe (befgh)
G. K. Wood (g)

BOXFORD
M. A. Miller (e)

BRAINTREE
R. D. Enzmann (h)

BRIDGEWATER
P. Huffington (e)

BRIGHTON
M. M. Cassidy (abdefh)
E. Maple (d)

BROOKLINE
M. P. Hagan (d)

BURLINGTON
E. T. Clarke (ed)
O. R. Coté (cde)

CAMBRIDGE
H. Atlas (d)
A. H. Barrett (cd)
E. Beiser (abcdef)
H. B. Bigelow (e)
M. P. Billings (afh)
F. Birch (bfh)
F. Bitter (cd)
P. W. Bridgman (b)
W. S. Butcher (efh)

W. B. Campbell, Jr. (f)
A. Casagrande (g)
R. A. Christensen (a)
J. Claerbout (ad)
R. E. Clapp (d)
G. W. Clark (d)
G. L. Clarke (e)
G. M. Fair (g)
H. W. Fairbairn (fh)
G. Faure (f)
E. S. Fergusson (d)
M. B. Fiering (bg)
E. L. Fireman (f)
F. L. Foster (bd)
J. N. Galbraith, Jr. (bdh)
C. J. Galvin (h)
R. M. Garrels (h)
J. C. Gille (abdefh)
T. J. Grady (a)
D. R. F. Harleman (eg)
N. A. Haskell (bh)
G. S. Hawkins (df)
J. F. Hays (efh)
A. Hoopes (ceg)
H. G. Houghton (ce)
H. Hughes (fh)
P. M. Hurley (fh)
A. T. Ippen (eg)
L. G. Jacchia (d)
R. C. Jones (d)
L. D. Kaplan (cdeg)
Y. Kozai (a)
Arthur D. Little, Inc.
T. R. Madden (abdeh)
K. F. Mather (befh)
K. G. McCracken (d)
R. E. McCrosky (cd)
E. Mencher (efh)
D. H. Menzel (d)
J. P. Miller (fg)
R. E. Newell (ed)
Y. Ogura (e)
J. L. Powell (f)
J. Pressman (cde)
R. P. Rafuse (d)
F. Raichlen (eg)
U. R. Rao (d)
J. Rolff (a)
J. B. Rossi (d)
M. D. Rostoker (h)
D. C. Royal (bde)
F. Scherb (d)
L. D. Shapiro (abd)
R. R. Shrock (efgh)
M. G. Simmons (fh)
J. C. Simons, Jr. (c)
H. Stommel (e)
B. Szabó (a)
C. W. Thomas (e)
H. A. Thomas, Jr. (g)
J. B. Thompson, Jr. (fh)
D. Tilles (bdefh)
G. F. Vanderschmidt (c)
B. Vonnegut (c)
D. R. Waldbaum (fgh)
J. T. Wasson (cef)
W. J. Weber, Jr. (aceg)
F. L. Whipple (ac)
C. A. Whitney (ac)
H. C. Willett (ce)
J. W. Winchester (f)
J. A. Wood (cdf)
K. Yoshida (abce)

CANTON
E. O. Gronroos (de)

CARLISLE
N. P. Carleton (cd)
N. G. Parke, III (d)

CHESTNUT HILL
J. W. Skehan, S.J. (fgh)

COCHITUATE
R. H. Guenther (edg)

COHASSET
R. B. Smith (ceg)

CONCORD
A. C. Bemis (c)
A. E. Benfield (h)
D. S. Cooley (c)
R. M. Cunningham (c)
G. W. Dyer (dg)
J. E. Manson (d)
P. Newman (d)

DEDHAM
T. M. Hastings, Jr. (d)

DORCHESTER
J. T. Prohaska (cd)

DUXBURY
R. O. Hutchinson (bd)

FAYVILLE
O. W. Williams (a)

FRAMINGHAM
A. Blake (bdeh)
P. N. Chunko (abcdefgh)
H. A. Cohen (cd)
M. S. Hunt (a)
E. R. Manring (d)

GROTON
V. C. Pineo (acd)

HAMILTON
E. A. Sammel (g)

HOLDEN
L. J. Hooper (g)

JAMAICA PLAIN
D. L. Arenberg (c)

LANCASTER
R. H. Woessner (cd)

LENOX
A. R. Hersh, Jr. (a)

LEXINGTON
L. G. Abraham, Jr. (c)
G. T. Bryant (g)
T. Cantwell (bdfh)
H. B. Cochran (c)
A. R. Crisi (ceg)
L. L. De Goes (abcdefgh)
E. L. Eaton (c)
R. G. Eldridge (ede)
G. E. Hill (cd)
W. E. Howell (c)
H. M. Jones (ed)
C. E. Junge (c)
W. L. Lea (d)
C. B. Moore (ed)
H. S. Muench (c)
N. A. Phillips (c)
H. L. Pond (d)
R. C. Sagalyn (d)
S. Silverman (d)
L. G. D. Thompson (a)
C. N. Touart (c)
E. W. Wahl (c)
S. C. Wang (d)
E. A. Wilder (eg)
H. Yagoda (d)
M. Zelikoff (d)

LINCOLN
R. D. Coons (c)
J. W. Meyer (de)

MALDEN
H. C. Alberts (cd)

MARBLEHEAD
D. M. Ferguson (abcdefgh)
F. Sanders (c)

MARLBORO
H. A. Ossing (abdfh)

MARSHFIELD
E. R. Snow (ceg)

MARSHFIELD HILLS
E. R. Anderson (edeg)

MEDFORD
J. D. Hume (eg)
G. F. Rourke (bd)
I. I. Schell (ce)

MILTON
E. J. Clasby (c)

NANTUCKET
E. D. Hoffleit (cd)

NATICK
P. C. Dalrymple (ce)
W. A. Mills (bde)
W. F. Wood (abcdefgh)

NEEDHAM
D. A. Boots (cd)
J. S. Farlow, III (e)

NEWTON
E. M. Brooks (ceg)
H. E. Hinteregger (d)
O. Tenenbaum (c)

NEWTONVILLE
W. W. Vickers (cg)

NORTH ABINGTON
J. F. McClay (d)

NORTHAMPTON
M. Schalk (ce)

NORTH CHELMSFORD
G. H. Pettengill (d)

NORTH SCITUATE
P. R. Miles (abcdeg)

ORANGE
E. F. Preece (eg)

PELHAM
T. E. Rice (bhg)

QUINCY
S. B. Solot (eg)

QUISSETT
E. H. Smith (ceg)

ROXBURY
I. M. Browne (ee)

SAXONVILLE
A. Court (eg)

SOUTH DARTMOUTH
H. E. Cramer (c)
F. A. Record (c)

SOUTH DUXBURY
R. M. Field (abcdefgh)

SOUTH LINCOLN
N. C. Gerson (cd)
R. V. Row (d)

STONEHAM
M. L. Stone (cd)

SUDBURY
C. K. Anderson (e)
H. B. Ferguson (bcd)
W. C. Palson, Jr. (e)
J. G. Wolbach (d)

SWAMPSCOTT
L. Katz (d)

VINEYARD HAVEN
H. Hotchkiss (abcdefgh)

WAKEFIELD
F. F. Marmo (df)
R. K. Soberman (d)

WALPOLE
V. G. Plank (c)

WALTHAM
J. Carstoiu (bcde)
E. J. Chernosky (bcd)
S. C. Coroniti (cd)
A. Engelman (ce)
J. S. Goldstein (cd)
D. A. Hedlund (d)
G. H. Joshi (d)
T. Y. Palmer (cd)
T. F. Rogers (bcdgh)
L. G. Smith (cd)

WATERTOWN
W. Baginsky (cdeg)
J. T. Neal (cefgh)
S. E. Strom (d)
J. C. Williams (acd)

WAYLAND
P. A. Silberg (cd)

WELLESLEY HEIGHTS
P. F. Twitchell (c)

WELLESLEY HILLS
P. S. Eagleson (eg)
R. B. Penndorf (cd)
H. O. Stearns (abe)

WEST CONCORD
O. Njus (c)

WEST NEWTON
P. W. Barnes (be)
J. G. Charney (ce)

WESTON
P. E. Green, Jr. (b)
R. B. Holt (d)
D. Linehan, S.J. (abh)
E. A. Martell (ef)
A. Peterson (acd)
F. W. Ward, Jr. (cd)

WEST SPRINGFIELD
R. F. Novotny (efgh)

WESTWOOD
E. M. Thomas (d)

WILLIAMSTOWN
F. Foote (bef)
J. A. MacFadyen (bch)
E. L. Perry (bfh)

WILMINGTON
H. Dolezalek (c)

WINCHESTER
W. L. Cowan (ag)
R. K. C. Johns (a)

WOODS HOLE
L. H. Barbour (ae)
C. O. Bowin (aefh)
D. F. Bumpus (e)
E. T. Bunce (abeh)
D. E. Carritt (e)
J. Chase (ce)
L. A. E. Doe (ceg)
R. S. Edwards (abe)
D. A. Fahlquist (eh)
A. J. Faller (ce)
D. H. Frantz, Jr. (e)
F. C. Fuglister (e)
P. M. Fye (e)
J. W. Graham (bfh)
J. B. Hersey (abdh)
B. H. Ketchum (e)
R. G. Leahy (ef)
M. C. McLean (e)
A. R. Miller (e)
A. C. Redfield (e)
W. S. Richardson (e)
M. Sears (e)
P. F. Smith (e)
F. M. Soule (de)
A. C. Vine (ae)
G. H. Volkmann (e)
W. S. von Arx (ee)
T. F. Webster (de)
A. H. Woodcock (e)

MICHIGAN

ANN ARBOR
M. L. Barasch (defh)
F. R. Bellaire (e)
R. M. Berry (a)
E. W. Bierly (e)
R. L. Boggess (d)
L. H. Brace (d)
E. F. Brater (g)
L. I. Briggs, Jr. (befh)
J. N. DeNoyer (bd)
A. N. Dingle (eg)
E. S. Epstein (c)
D. F. Eschman (befgh)
R. C. Fitzpatrick (abcdefgh)
E. N. Goddard (f)
F. T. Haddock, Jr. (d)
H. H. Hamilton (e)
E. W. Hewson (c)
D. L. Jones (e)
L. M. Jones (ed)
J. A. Jordan, Jr. (d)
D. C. Leavengood (ce)
V. C. Liu (bcd)
W. F. MacLean (e)
S. P. Maran (ach)
R. D. O'Neal (e)
D. J. Portman (c)
P. E. Sherr (ceg)
N. Smith (d)
C. W. M. Swithinbank (ceg)
O. L. Tiffany (bcde)
F. S. Turneaure (f)
L. E. Waldorf (ad)
D. G. Wentzel (d)
J. M. Wiggert (g)
D. E. Willis (bch)
J. T. Wilson (bch)
C. O. Wisler (g)
D. C. Woo (g)
J. L. B. Worth (c)
Y. H. Zumberge (eg)

CALUMET
J. P. Pollock (f)

DEARBORN
M. Ference, Jr. (cdh)
H. J. Paul (c)

DETROIT
L. Bajorunas (g)
J. P. Bedford (fgh)
F. A. Blust (g)
L. V. Garrity (g)
A. J. Hansen (cfg)
A. W. Hodson (g)
W. T. Laidly (ag)
I. D. Lemke (cd)
H. Mandelbaum (ceg)
V. E. Noble (ceg)

W. H. Parsons (fh)
L. T. Schutze (g)

EAST LANSING
R. A. Baltzer (eg)
A. H. Eichmeier (c)
A. E. Erickson (g)
G. H. Hautau (abdh)
H. R. Henry (g)
W. J. Hinze (abdefh)
W. G. Keck (d)
E. M. Laursen (g)
M. M. Miller (g)
J. W. Trow (gh)

GRAND RAPIDS
E. M. Burt (efgh)
J. Szantho (abedh)

GROSSE POINTE
T. Hooker, Jr. (bdfh)

GROSSE POINTE FARMS
J. W. Mulford (f)

HOLT
E. Derragon (beg)

HOUGHTON
L. O. Bacon (abdf)
L. S. Berkes (bdefh)
W. W. Johnson (bdh)
R. J. Kesti (abcdefgh)
W. L. Longacre (bdgh)
R. H. Mount (abdeh)
J. M. Neilson (h)
A. K. Snelgrove (bf)
D. O. Wyble (abeh)
D. G. Yerg (edg)

IRON MOUNTAIN
G. B. Patrick (c)
B. C. Trethewey (df)

ISHPEMING
B. H. Boyum (abcdefgh)

LANSING
T. Abrams (a)
J. G. Rulison (cg)
S. W. Wiitala (g)

MIDLAND
J. J. Grebe (f)
E. S. Robinson (b)

MT. PLEASANT
E. J. Warren (bd)

NAUBINWAY
R. R. Rowe (eg)

PONTIAC
R. R. McMath (adh)
H. D. Prince (d)

SALINE
D. S. Heim (cd)

SAUGATUCK
H. Niles (abcdefgh)

SAULT STE. MARIE
M. E. Scherer (abcefg)

SOUTHFIELD
Bendix Corp.
D. L. Sterling (be)

WARREN
F. R. Balle (g)
J. M. Campbell
General Motors Corp.
L. R. Hafstad (d)
J. L. Schwab (c)

WHITMORE LAKE
D. N. Hart (bfg)

YPSILANTI
F. C. Elder (c)

MINNESOTA

DULUTH
J. L. Gergen (cd)
H. J. Hakala (ad)
R. A. Hall (abdh)
E. D. Johnson (dg)
L. A. Mattson (df)

GRAND RAPIDS
D. H. Boelter (eg)

MINNEAPOLIS
E. J. Amdur (c)
A. G. Anderson (g)
R. L. Arnoldy (d)
A. D. Belmont (eg)
P. D. Bhavsar (d)
P. E. Cloud, Jr. (eh)
J. C. Craddock (bdefh)
G. D. Freier (c)
P. St C. Freier (d)
P. W. Gast (f)
G. O. Guesmer (ag)
E. L. Hill (d)
R. A. Hoffman (d)
D. J. Hofmann (d)
J. B. Johnson, Jr. (adh)
L. A. Johnson (g)
H. J. Jongedyk (g)
V. S. Kardashian (bcd)
O. L. Karklins (befh)
P. J. Kellogg (d)
P. W. Kenworthy (c)
R. F. Kreiss (g)
J. L. Kroening (c)
D. B. Lawrence (cfg)
Lightning & Transients Research Institute
H. T. Mantis (c)
A. F. Meyer (cg)
H. M. Mooney (abdfh)
M. M. Newman (cd)
E. P. Ney (cd)
A. O. C. Nier (f)
H. A. Panofsky (c)
L. E. Peterson (d)
E. B. Sandell (f)
P. Signer (cd)
J. C. Slothower (df)
A. F. Spilhaus (ce)
L. G. Straub (g)
J. H. Strub, Jr. (cg)
E. Thiel (abdeh)
M. T. Uy (edeh)
J. R. Winckler (d)
F. S. Witzigman (g)
H. E. Wright, Jr. (cegh)

MORRIS
W. C. Burrows (cg)

NEWPORT
H. G. Rodis (g)

NORTHFIELD
L. M. Gould (gh)
E. L. Henrickson (bf)
D. Stewart (f)

ROCHESTER
A. L. Orvis (cd)

ST. PAUL
D. G. Baker (cg)
W. M. Bollenbach (g)
B. R. Colby (cg)
J. A. Earl (cd)
W. S. Glock (cefg)
Edward E. Johnson, Inc.
C. L. Larson (g)
R. K. Maxwell (cg)
M. E. Nelson (aeg)
S. M. Rubens (d)
R. L. Schreurs (g)

SPRINGFIELD
S. W. Fruehling (b)

WEST SAINT PAUL
J. E. Wright (cd)

MISSISSIPPI

BROOKHAVEN
J. E. Barthelemy, Jr. (b)

ELLISVILLE
C. R. Pettis (g)

HATTIESBURG
B. W. Brown (fh)
O. T. Brown (f)

JACKSON
W. F. Albers (b)
K. Arnold (abcdefgh)
G. V. Fish (ceg)
J. W. Lang (g)
K. Mather (efh)
R. R. Phillips (b)
W. H. Robinson (g)
R. L. White (bdh)

NATCHEZ
G. W. Gulmon (abcdefgh)
J. A. Montgomery, Jr. (be)

OCEAN SPRINGS
F. Chew (ce)

OXFORD
J. L. Thames (g)

UNIVERSITY
F. E. Dendy (g)
W. R. Hamon (e)
L. L. McDowell (fg)
J. R. McHenry (g)
C. R. Miller (g)
D. A. Parsons (g)
R. Woodburn (ag)

VICKSBURG
F. B. Campbell (cg)
J. G. Housley (ce)
M. J. Hvorslev (eg)
N. R. Moore (egh)
W. E. Rater (cg)
W. H. G. Roth (cg)

MISSOURI

AFTON
E. J. Mateker, Jr. (abd)

ARNOLD
I. T. Tumey (f)

BERKELEY
R. G. Pruett (cd)

BONNE TERRE
W. W. Weigel (df)

BRENTWOOD
A. C. Schmieding (acd)

BUCKNER
R. E. Johnson (g)

CLAYTON
I. Levine (a)

COLUMBIA
W. L. Decker (cg)
W. M. Sangster (eg)
H. W. Wood, Jr. (g)
C. M. Woodruff (g)

CREVE COEUR
E. M. Rasmusson (eg)

FLORISSANT
J. D. Define (a)
P. M. Schwimmer (ae)

GRANDVIEW
C. A. Morelli, II (abcfgh)
R. E. Owens (abcdg)

IRONTON
R. K. Warren (ab)

KANSAS CITY
V. Alexander (g)
W. R. Astleford (g)
A. Ehrlich (c)
S. E. Ekblaw (cefg)
L. P. Hahn (eg)
W. E. Hardy (c)
C. W. Newton (c)
W. L. Northrop (eg)
L. C. Peltier (c)
D. E. Phillips (eg)
R. J. Theisen (eg)
C. F. Van Thullenar (ceg)
N. T. Veatch (g)

KIRKWOOD
C. H. Frey (a)
R. J. Gentile (fg)
L. E. Greco (a)
W. J. Hannon (abcd)
G. K. Hasegawa (g)
C. G. Hinchman (a)
F. F. Pope (a)

LEMAY
J. D. Dabbs (a)

NORMANDY
R. N. Craig (eg)

ROLLA
G. C. Amstutz (fh)
H. C. Bolon (g)
G. B. Clark (b)
W. H. Kim (bdh)
J. V. Lavery (dfh)
J. C. Maxwell (bg)
M. S. Petersen (g)
H. M. Zenor (abcdefgh)

ST. ANN
E. J. Kellerstrass (c)

ST. JAMES
J. T. Sturm (eg)

ST. LOUIS
V. J. Blum, S.J. (abcdh)
B. F. Bower (eg)
G. Braught (b)
J. C. Brice (eg)
M. B. Bryant (a)
E. U. Condon (bcde)
K. I. Daugherty (a)
J. L. Dragg (ad)
W. R. Eaton (g)
Emerson Electric Mfg. Co.
J. M. Estes (a)
L. M. Fernández (bc)
A. J. Frank (bdfg)
E. J. A. Gain (g)
J. Gillespie (a)
J. E. Hanna, Jr. (a)
W. J. Hartnett (ceg)
R. F. Hautly (b)
R. R. Heinrich (bc)
J. G. Heinrichs (adf)
M. Hejazi (d)
A. N. Heyl (a)
N. S. Hinchey (bg)
I-C. Hsu (abcdefgh)
S. W. Jens (g)
R. L. Jones (adh)
F. M. Lehr (a)
P. Light (eg)
W. C. Mahoney (a)
R. G. Mann (eg)
C. F. Martin (a)
E. C. Meserve (eg)
T. W. Miller (a)
H. F. Mondschein (eg)
O. W. Nuttli (ab)
H. M. Reitz (gh)
W. H. Roschke, Jr. (bcdgh)
L. Scharon (bdfgh)
R. L. Segar (d)
G. K. Shelton (a)
E. T. Sonido (bd)
W. F. Sprengnether Instrument Co.
W. Stauder, S.J. (bcd)
A. Udias, S.J. (bh)
G. J. Vencill (eg)
J. F. Vines (a)
J. A. Volk (bd)
H. L. White (a)
L. E. Wilcox (a)
A. L. Worseck (eg)

UNIVERSITY CITY
B. L. Brauninger (ef)
F. M. Farouq (bg)
C. Kisslinger (abdh)
R. M. Perlman (ae)

WEBSTER GROVES
E. J. Wetzker (a)

MONTANA

BILLINGS
G. F. Darrow (beg)
J. Doroshenko (fgh)
L. J. Larguier (b)
A. P. Whipple (abh)

BOZEMAN
C. Bradley (fh)
E. R. Dodge (eg)
P. A. Glancy (abfgh)
E. Juvan (bfgh)

BUTTE
S. W. Nile (b)

CHOTEAU
J. G. Robison (d)

DILLON
E. P. Beaulieu (abcefgh)

GREAT FALLS
A. F. Bateman, Jr. (gh)

HELENA
R. A. Dightman (c)
C. S. Heidel (g)
N. J. Holter (e)

LAKESIDE
H. W. Bloomer (d)

MISSOULA
J. A. Adams, Jr. (g)
K. Bennington (fh)
M. H. Manghnani (bdef)
R. G. McMurtrey (g)

NEBRASKA

BELLEVUE
L. A. Stuebinger (eg)

COLUMBUS
R. S. Clark (cg)

GRAND ISLAND
J. F. Mayne (eg)

HASTINGS
J. A. Allis (g)
F. J. Dragoun (g)
LINCOLN
R. G. Bowman (c)
R. L. Chasson (cd)
R. H. Corcoran (g)
H. G. Heinemann (cg)
J. B. Hyland (g)
C. F. Keech (g)
K. M. Kent (g)
F. F. LeFever (g)
A. P. Mazurak (g)
E. C. Reed (g)
E. F. Schramm (cef)
A. L. Sharp (g)
N. P. Swanson (g)
G. H. Taylor (g)
McCOOK
W. O. Brown (cg)
OMAHA
J. M. Barton (abh)
D. C. Bondurant (cg)
C. F. Jensen (c)
M. E. Kirby (bdfgh)
F. W. Murray (c)
R. J. Pafford, Jr. (cg)
E. F. Stapowich (ce)
T. Waara (g)

NEVADA

BLUE DIAMOND
H. C. Wells (bdh)
BOULDER CITY
F. K. Ilk (g)
H. E. Pelham (cg)
CARSON CITY
V. J. Hansen (cg)
H. A. Shamburger (bcg)
L. J. Snell (g)
EAST ELY
B. T. Berge (f)
LAS VEGAS
P. W. Allen (c)
J. H. Morgan (g)
O. J. Scherer (ab)
MERCURY
I. J. Winograd (cg)
MINDEN
G. M. Dangberg (cg)
RENO
H. P. Boardman (g)
H. R. Cooke, Jr. (abedefgh)
T. E. Eakin (g)
M. M. Fogel (cg)
J. L. Gimlett (abdfh)
J. D. Lemon (bef)
E. M. F. Lovejoy (bdfgh)
L. S. McGirk, Jr. (adg)
W. A. Mordy (c)
J. T. Ryan (g)
V. E. Scheid (fh)
SPARKS
I. A. Lutsey, Jr. (ah)
L. J. May, Jr. (df)
YERINGTON
N. S. Hall (g)

NEW HAMPSHIRE

CONCORD
D. W. Hullinghorst (cg)
DUBLIN
R. Sagendorph (a)
DURHAM
L. J. Cahill, Jr. (d)
R. E. Houston, Jr. (d)
J. A. Lockwood (cd)
T. R. Meyers (fg)
C. J. Schneer (af)
J. H. Trainor (d)
EXETER
W. S. Burbank (fh)
C. M. Matthews (acg)
GOFFSTOWN
J. V. Salo (cdg)
HANOVER
M. A. Bilello (cg)
R. W. Decker (bh)
M. G. Morgan (d)
LACONIA
K. H. Beij (g)
L. R. Brody (c)
R. E. Leonard (cg)
MELVIN VILLAGE
L. R. Page (f)
PORTSMOUTH
M. A. Shea (d)

NEW JERSEY

ALPINE
S. Paige (abg)
ASBURY PARK
I. Cantor (c)
H. Weickmann (cdg)
ATLANTIC CITY
A. E. Tancreto (ce)
BEDMINSTER
S. S. Stein (bdeh)
BLOOMFIELD
R. A. Eckel (cd)
R. J. Ferber (ab)
COLTS NECK
H. J. aufm Kampe (c)
ELBERON
R. W. Fenn (c)
ELMER
J. R. Mather (c)
C. W. Thornthwaite (cg)
FAIR HAVEN
F. H. Dickson (d)
W. J. Russell, Jr. (cd)
FLORHAM PARK
A. R. Bobrowsky (bfh)
FORT MONMOUTH
S. B. Levin (bdf)
GLEN ROCK
D. J. O'Connor (g)
HADDONFIELD
A. H. Benner (dh)
I. Remson (g)
HIGHLAND PARK
R. J. Haefeli (bcg)
HILLSIDE
H. Levy (cg)
HOBOKEN
S. J. Lukasik (cde)
W. Marks (ce)
Y. Nakagawa (cde)
LINWOOD
W. E. Eggert (c)
LITTLE FALLS
D. Balber (ae)
R. E. Ross (ace)
LITTLE SILVER
B. S. Bernstein (d)
F. B. Daniels (d)
L. A. Pick (cd)
LODI
R. E. Fisher (c)
LONG BRANCH
S. Perlman (cd)
MATAWAN
F. J. Haughey (cd)
McGUIRE AFB
J. L. Hale (c)
MENDHAM
N. F. Lacey (c)
METUCHEN
W. C. Dimock (ceg)
MIDLAND PARK
H. M. Corn (g)
MONTCLAIR
M. O. Childers (bh)
MONTVILLE
E. B. Douglas (bdh)
MOORESTOWN
S. Goldman (d)
R. J. Wagner, Jr. (cd)
MORRISTOWN
B. P. Bogert (be)
MOUNTAINSIDE
T. N. Anderson (d)
NEPTUNE
H. W. Kasemir (c)
L. H. Ruhnke (cd)
NEW BRUNSWICK
W. E. Marlatt (cg)
R. D. Smith, Jr. (eg)
J. C. F. Tedrow (g)
NEW LISBON
L. C. Reigner (g)
NEW SHREWSBURY
S. L. Goldblatt (d)
A. K. Harris (d)
NORTH ARLINGTON
D. A. Harvey (dh)
NORTH BERGEN
D. Barkow (g)
NORTH PLAINFIELD
J. Vecchioli (bcefgh)
NORWOOD
W. C. Beckmann (abdefgh)
J. Hirshman (abde)
D. H. Warren (abde)
PARLIN
G. L. E. Linn (g)
PATERSON
P. J. Del Vecchio (cd)
PENNINGTON
J. E. McCall (ag)
PLAINFIELD
E. C. Taylor (acdgh)
PRINCETON
L. D. Arons (acd)
W. E. Bonini (abdh)
J. Brandinger (d)
A. F. Buddington (dfh)
R. E. Danielson (d)
R. J. M. De Wiest (ceg)
R. H. Dicke (abefh)
G. B. Field (d)
J. M. Greene (cd)
H. D. Hedberg (abdeh)
H. H. Hess (abefh)
N. W. Hinners (f)
H. D. Holland (f)
S. B. Iriah (a)
F. C. Jones (d)
P. Kissam (a)
W. D. MacDonald (adh)
S. Miluschewa (d)
F. C. W. Olson (e)
E. Sampson (fh)
L. Spitzer, Jr. (cde)
J. C. Stewart (h)
W. T. Thom, Jr. (abdfh)
P. B. B. N. Wallis (acef)
H. F. Winterkorn (cg)
F. F. Wright (bef)
PRINCETON JUNCTION
R. Vajk (abdh)
RED BANK
D. S. Bugnolo (acdgh)
RIVER EDGE
G. H. Farrance (bd)
SHREWSBURY
A. Eckstein (d)
SOMERS POINT
F. L. Dix (bcd)
SOUTH PLAINFIELD
AGA Corp. of America
B. O. Farnstrom
SPARTA
J. V. Kaufman (b)
SPRING LAKE
H. A. Bomke (d)
SPRING LAKE HEIGHTS
H. J. Hope (d)
SUMMIT
S. Koslov (cd)
TEANECK
A. M. Kinloch (ag)
B. Luskin (abcde)
TITUSVILLE
R. H. Tice (g)
TOMS RIVER
T. M. Mangum (ce)
TRENTON
C. A. Appel (abefgh)
J. A. Bettendorf (acg)
R. E. Cyphers, Jr. (g)
D. V. Dunlap (cg)
M. M. Poplack (beefg)
G. C. Quigley (cde)
G. R. Shanklin (cg)
A. Sinnott (fgh)
UPPER MONTCLAIR
W. B. Farrington (aefgh)
VENTNOR
A. Hilsenrod (e)
WAYNE
L. A. Gregory, Jr. (be)
WEST CALDWELL
R. A. Wilkens (g)
WESTFIELD
H. R. Magnuson (bfg)
R. B. Sosman (fh)
WEST LONG BRANCH
A. Arnold (c)
WHIPPANY
J. P. Downs (bd)
R. J. Hurley (bdefh)
H. C. Menck, Jr. (abde)
R. A. Walker (beh)
WOODBURY
A. B. Andrews (b)
WYCKOFF
P. J. O'Reilly, Jr. (c)

NEW MEXICO

ALAMOGORDO
C. S. Bagley (a)
F. J. Calkum (a)
J. G. Jones (cd)
M. W. Jones (bcdh)
R. L. Larkins (a)
ALBUQUERQUE
J. H. Abrahams, Jr. (fg)
L. Allen, Jr. (d)
D. E. Burkham (g)
H. W. Church (c)
J. K. Culbertson (g)
R. L. Cushman (gh)
F. C. Di Luzio (bcg)
W. M. Elsasser (ed)
R. W. Fife (g)
R. J. Flanagan (d)
F. E. Holly (d)
J. Katzenstein (d)
P. R. Kintzinger (dg)
L. H. Koopmans (b)
D. M. Mattox (abcd)
T. O. Meeks (g)
B. F. Murphey
G. L. Oakland (g)
W. R. Perret (bd)
T. W. Reed (c)
V. H. Regener (d)
Sandia Corp.
L. B. Smith (cde)
C. V. Theis (g)
F. D. Trauger (g)
L. J. Vornhan (bh)
W. D. Weart (bh)
J. A. Welch, Jr. (cde)
S. A. Wengerd (abefh)
CARLSBAD
E. R. Cox (fg)
W. E. Pratt (bcefg)
DEMING
L. T. Putnam (g)
FARMINGTON
D. H. Peterson (bh)
GLENCOE
L. W. Storm (acde)
GRANTS
W. E. Bales (dfh)
R. H. Howell (acfh)
R. A. Laverty (bd)
V. A. Means, Jr. (g)
P. E. Melancon (fgh)
HOBBS
S. R. Tyler (bdfh)
KIRTLAND AFB
C. M. Gillespie (ad)
R. L. Kaufmann (ad)
LAS CRUCES
W. J. Brown (c)
LOS ALAMOS
A. H. Armstrong (d)
S. J. Bame, Jr. (d)
T. J. Boyd, Jr. (cd)
R. W. Bussard (bce)

L. C. Hale (d)
F. B. Harrison (d)
J. S. Malik (abde)
B. T. Rogers, Jr. (ag)
R. F. Taschek (bd)

LOVINGTON
J. S. Havens (eg)

ROSWELL
S. E. Galloway (g)
L. B. Haigler (g)
R. D. Holt (abegh)
J. W. Hood (g)
R. E. Murphy (gh)

SANDIA BASE
B. Grotz (bg)

SANTE FE
P. D. Akin (g)
J. R. Erickson (g)
W. L. Heckler (g)
F. G. West (g)
J. C. Yates (g)

SILVER CITY
H. A. Schmitt (efh)

SOCORRO
M. Brook (cd)
W. D. Crozier (bd)
B. E. DeBrine (g)
F. R. Hall (g)
A. A. Hassan (bdfgh)
J. B. Hulsey (abg)
A. K. Ibrahim (bfgh)
M. Kawano (cd)
F. J. Kuellmer (fh)
T. Ogawa (cd)
S. S. Papadopulos (g)
A. R. Sanford (abh)
Z. Spiegel (g)
M.-S. Sun (fh)
M. H. Wilkening (cd)
E. J. Workman (d)

SUNSPOT
J. W. Evans (a)
H. J. Smith (d)

UNIVERSITY PARK
N. N. Gunaji (gg)
W. Viessman, Jr. (cg)

WHITE SANDS MISSILE RANGE
R. K. Sherburne (cdeh)

NEW YORK

ALBANY
D. F. Dougherty (g)
R. C. Heath (cg)
T. Isaacs (fgh)
J. F. Joyce (g)
J. C. Kammerer (gh)
H. G. Stewart, Jr. (g)
H. G. Wilm (cg)
J. D. Winslow (bdgh)

ALBERTSON
D. W. Miller (ag)

ALDEN
P. J. Kintner (cd)

ALFRED
T. Takahashi (f)

AMITYVILLE
A. De Prete, Jr. (abcdefgh)

BALDWINSVILLE
K. B. Cross (acd)

BAY SHORE
M. C. Depp (d)

BAYSIDE
A. F. Merewether (e)

BAYVILLE
D. V. Bayer (cefg)

BELLMORE
F. Field (ce)

BETHPAGE
A. A. Crews
Grumman Aircraft Engr. Corp.
M. Hertzberg (d)

BRONX
R. J. Becker (ce)
M. H. Degani (cdeg)
R. Hollman (ce)
E. B. Kalotkin (ce)
A. Kaufman (ef)
B. R. Liebman (fh)
R. B. Mendell (d)
J. P. Pandolfo (ce)
H. S. Slimowitz (c)
J. Spar (c)

BROOKLYN
W. L. Donn (ceg)
S. H. Elman (befg)
L. Harris (ae)
W. M. Honig (de)
C. N. Klahr (abcdh)
M. Koenig (abce)
J. S. Levine (ad)
J. Stulman (de)
E. Weber (d)
W. E. Yasso (bfh)

BUFFALO
S. Chapman (ed)
W. A. Flood, Jr. (cd)
J. W. Ford (ed)
F. S. Freeman (c)
J. S. Isenberg (cd)
H. H. Larkin, Jr. (bc)
A. C. McTigue (b)
R. J. Pilie (c)
J. Renau (d)
B. L. Wiggin (e)

CANTON
R. O. Bloomer (fh)

CHAPPAQUA
G. S. Fox (g)

CORNING
J. F. Wosinski (fg)

DEPOSIT
T. W. Fluhr (dgh)

DOBBS FERRY
G. N. Cox (g)
C. H. Holm (e)
J. Northrop (e)
L. Tolstoy (abcde)

EAST ELMHURST
L. Landau (ceg)

EAST MEADOW
N. D. Dvoskin (c)
F. C. Hamburg (ceg)

EAST WILLISTON
C. J. Knutson (fh)

ELMIRA
P. Greenlee (b)

ENDICOTT
R. E. Boyd (cd)

FAYETTEVILLE
E. B. Mullen (acd)

FLUSHING
W. M. Nelson (de)
Z. Yuval (bdg)

FOREST HILLS
T. Gomperz (d)
G. Mondrillo (eg)

FORT MONTGOMERY
W. S. Weyant (c)

FREEPORT
K. P. Chopra (ed)

GARDEN CITY
M. L. Brashears, Jr. (fgh)
G. Katavolos (bg)

GREAT NECK
W. N. Dean (ac)
R. Proskauer (bde)

GRIFFISS AFB
D. I. Zulch (d)

HAMILTON
D. K. Berkey (d)
J. G. Woodruff (b)

HUNTINGTON
C. F. W. Anderson (d)

ITHACA
D. S. Barker (fh)
D. A. Berkley (ed)
R. Bolgiano, Jr. (c)
H. G. Booker (cd)
H. C. Carlson, Jr. (d)
R. P. Cassam (d)
N. A. Christensen (abcdefgh)
M. L. Dwarkin (ad)
D. E. Fisher (abdef)
C. W. Gartlein (d)
T. Gold (dh)
K. Greisen (cd)
A. W. Harrington (eg)
W. K. Klemperer (d)
T. Laaspere (cd)
E. R. Lemon (c)
G. B. Lyon (eg)
R. D. Miller (eg)
C. M. Nevin (abdeh)
B. Nichols (d)
G.-C. Rumi (d)
P. G. Sheldon (beh)
G. C. Sprague (cd)
P. H. Underwood (adegh)
L. S. Wagner (cd)

JACKSON HEIGHTS
J. F. Dracup (a)
W. S. Newman (bfgh)
S. I. Strausberg (gh)

JAMAICA
L. E. Brotzman (ceg)
L. Harmantas (ce)
L. T. Olson (c)
P. E. Stinchfield (c)

JAMESTOWN
D. A. Holm (abcefgh)

KENMORE
J. S. King (efg)

LAKE RONKONKOMA
H. A. Agerschou (ceg)

LEVITTOWN
J. J. Geraghty (g)
H. G. Kaplan (c)

LINDENHURST
J. H. Carlson (ag)

LITTLE NECK
V. J. Young (e)

LIVERPOOL
J. N. Frank (adf)

LONG ISLAND CITY
M. P. Ehrlich (abcdegh)
C. D. Fornaro (ceg)
F. J. Skwarek (de)
R. Young (cdeh)

MALVERNE
B. Shupack (ce)

MASPETH
E. E. A. Chermack (c)

MILLBROOK
N. E. Howard (acd)

MINEOLA
H. L. Frauenthal (gh)
N. J. Luscynski (g)
N. M. Perlmutter (ag)
R. M. Sawyer (g)
J. E. Upson (g)

MONTROSE
R. G. Coulter (g)

MT. KISCO
G. Emmons (ce)

MT. VERNON
A. S. Toth (g)

NEW HARTFORD
S. Matt (cdg)

NEW YORK
A. Al-Hamdani (ceg)
J. R. Anderson (c)
J. L. Appleton, Jr. (ceg)
A. Arking (bcd)
W. Arthur (d)
J. J. Baffa (g)
A. F. Banfield (dg)
C. H. Behre, Jr. (fh)
A. Belser (cde)
Bell Telephone Labs.
E. S. Belote (a)
P. M. Bergford (a)
A. M. Bernstein (d)
J. F. Berthelsen (ac)
M. A. M. Bilelo (efh)
M. A. Biot (bh)
J. A. Brown (cde)
W. H. Bucher (ah)
M. E. Burgunker (abcdefgh)
R. H. Carter, Jr. (eg)
C. J. Casella (f)
P. J. Coffey (g)
L. P. Cogan (cd)
D. E. Cotten (cd)
I. H. Cram (abh)
L. G. Cumming (bcdef)
B. Davidson (ce)
V. P. de Smitt (abceh)
G. C. Dewey (eg)
F. H. Ditto (e)
W. E. Dobbins (g)
F. A. Donath (h)
M. E. Drake (be)
J. L. Edwards (h)
N. Efremov (df)
B. F. Ellis (be)
R. W. Fairbridge (eh)
P. H. Feldhausen (abe)
N. V. Feodoroff (g)
W. O. Field, Jr. (g)
R. E. Fisher (abeg)
R. Frassetto (e)
J. G. Gamble (ce)
R. L. Gamer (fgh)
C. D. J. Generales (adefh)
J. Gleason (c)
B. L. Golding (eg)
S. C. Goldman (cd)
J. B. Graham
D. W. Greenman (abeg)
M. D. Greyber (d)
E. J. Gumbel (g)
W. Hafner
J. C. Hagan (ceg)
G. R. Hamilton (abdeh)
J. D. Hamnon (ag)
G. H. Hargreaves (g)
C. G. Hawes (g)
R. C. Haymes (d)
G. H. Hazen (ab)
R. Hazen (cg)
J. P. Hebert, Jr. (c)
U. K. Heidelauf (adeh)
V. F. Hess (cd)
R. K. Honaman
H. E. Hudson, Jr. (eg)
P. W. Hughes (g)
J. P. Hurley (d)
S. Hutner (be)
W. S. Jardetsky (h)
W. Kaciak (cdeg)
P. F. Kerr (t)
F. O. Klein (d)
W. D. Kleis (c)
S. A. Korff (cd)
E. M. Kovach (d)
G. R. Krause (a)
A. S. Kusaman (c)
J. E. Kutzbach (c)
Leggette, Brashears, and Graham
J. Logan (ag)
J. London (cd)
L. A. Lovell (g)
K. E. Lowe (fh)
J. Lynch, S.J. (bh)
P. J. Magyar (defh)
M. Mangiacotti (abd)
G. T. McCarthy (eg)
R. E. McKown (ce)
R. W. McNamee
E. M. McNatt
H. Meyers (df)
D. Miller (c)
I. E. Miller (c)
R. L. Miller (cdh)
W. A. Miller (od)
J. A. Mirabito (ace)
R. D. Mitchell (g)
A. J. Moceyunas (cd)
R. D. Mollison (bdfh)
H. R. Moorman (abd)
I. J. Moskvitinoff (eg)
R. Nebolsine (g)
J. B. Neiger (e)
T. Nelson (abdgh)
G. Neumann (e)
H. Newstein (cde)
N. A. O'Donnell (df)
A. G. Opp (abd)
Parsons, Brinckerhoff, Quade, and Douglas
E. P. Patten, Jr. (fg)
W. J. Pierson, Jr. (ce)
E. R. Piore (de)
A. Poldervaart (f)
N. Porter (ae)
R. W. Porter (ad)
F. H. Pough (f)
W. I. Powell, Jr. (a)
M. Prins (efh)
S. I. Rasool (ed)

J. A. Reinemund (bh)
F. L. Rhodes (cg)
A. F. Richards (ef)
M. M. Rolf (adfh)
R. J. Rommer (c)
P. C. Rutledge (g)
W. C. Ryan (a)
W. C. Sands (e)
L. K. Sarkissian (abcdefgh)
D. W. Saxton (c)
S. Schaffel (fh)
B. Schilit (c)
G. R. Schottler (ef)
A. K. Sen (acdg)
D. D. Shaffner (c)
Shell Oil Co.
W. H. Sherman (aeg)
V. P. Simmons (ce)
R. G. Snider (ceg)
Standard Oil Co. of New Jersey
H. L. Stolov (cd)
A. N. Strahler (g)
M. J. Terman (fgh)
W. C. Thompson (abce)
C. Thor (e)
L. J. Tick (ce)
G. E. Tolbert (f)
L. R. Tucker (bc)
E. Ubell (e)
Union Carbide Corp.
A. Van Burkalow (eg)
N. VanderSleen (abdfh)
E. W. Vaughan
D. I. Weigle (bdefh)
H. W. Wells (cd)
J. Whelen (ce)
C. F. Whistler (cde)
G. R. Williams (g)
R. W. Wilson (c)
D. B. Wintrey (b)
W. A. Wood (acg)
M. A. Woodbury (ce)
B. B. Zavoico (fh)

NYACK
M. J. Davidson (abdf)

OLEAN
W. J. Yahn (h)

OYSTER BAY
F. T. Bonner (f)

PALISADES
L. E. Alsop (abcdefgh)
H. J. Dorman (b)
C. L. Drake (abde)
D. B. Ericson (e)
A. F. Espinosa (abdef)
J. I. Ewing (abdefh)
M. Ewing (abcdeh)
D. E. Hayes (be)
B. C. Heezen (abdefh)
J. R. Heirtzler (de)
K. L. Hunkins (bdh)
B. L. Isacks (abdfh)
J. L. Kulp (e)
M. G. Landisman (abcdefgh)
M. G. Langseth (beh)
W. J. Ludwig (be)
M. W. Major (abde)
W. T. McGuiness (bc)
J. E. Nafe (abde)
J. E. Oliver (bce)
G. Peter (de)
R. L. Pfeffer (ce)
P. W. Pomeroy (abdfh)
Y. Sato (b)
R. B. Simon (b)
G. H. Sutton (abdefgh)
L. R. Sykes (beh)
L. Talkington (ad)
M. Talwani (abdeh)
D. L. Thurber (ef)
F. Vila (abdefh)
J. Walker (be)
R. E. Wall (abeh)
J. M. Wampler (e)
J. L. Worzel (abde)
G. A. O. Wust (ce)
N. Yamakawa (bce)

PEEKSKILL
G. M. Carhart (f)
J. W. Irish (ag)
R. A. Robertson (cde)

PIERMONT
J. F. Hennion (abef)

POTSDAM
J. E. Darraugh (c)

POUGHKEEPSIE
J. B. Cicchetti (e)
J. H. Johnsen (ce)
H. D. Shane (be)

RHINECLIFF
G. A. O'Donnell (d)

RICHMOND HILL
W. Fedukowicz (e)

RIVERDALE
M. H. Becker (e)

RIVERHEAD
H. O. Peterson (d)

ROCHESTER
W. A. Bassett (f)
J. S. Chesna (ed)
H. S. Coleman (c)
N. A. Finkelstein
General Dynamics Corp.
M. F. Kaplon (d)
J. F. Kick (fh)
W. T. Kreiss (abcd)
A. J. Lamendola (bd)
R. A. Santirocco (d)

ROCKVILLE CENTRE
M. Eisenbud (ce)

ROME
N. T. Hallmark (a)

SARATOGA SPRINGS
L. W. Strock (ef)

SCARSDALE
M. W. Garretson (fgh)
R. M. Scholland (cde)

SCHENECTADY
S. B. Dunham (c)
G. F. Prehmus (de)
R. S. Rochlin (d)
V. J. Schaefer (cg)

SCOTIA
H. Von Schelling (cg)

SHERBURNE
R. R. Bodle (bh)

SPRING VALLEY
T. T. Kuo (abdegh)
L. Moskowitz (ce)

STATEN ISLAND
N. O. Eriksen (bdefh)

STONY BROOK
H. H. Beverage (d)

SYOSSET
D. M. Chase (aede)
A. J. Nazarek (cd)

SYRACUSE
E. T. Apfel (cgh)
J. S. Burlew (fh)
J. Bush (e)
N. E. Chute (efh)
N. E. Faltyn (bg)
P. E. James (c)
D. C. Karr, Jr. (ad)
A. L. Leaf (cg)
J. R. Mahoney (cde)
G. H. Millman (aed)
E. H. Muller (efg)
A. E. Sanders (d)
D. R. Satterlund (g)
E. J. Schmidt (cd)
B. E. Simmons (c)

TARRYTOWN
J. F. Hoffman (abcdefgh)
R. J. Mihm (e)

TROY
T. J. Ahrens (bdh)
R. Fleischer (d)
A. W. Frament (g)
L. C. Higbee (ag)
S. Katz (bdeh)
E. J. Kilcawley (g)
R. G. LaFleur (aceg)
S. W. Lowman (abefh)
J. L. Rosenholtz (abdfh)

TUXEDO
W. O. J. Groeneveld Meijer (abdfh)
H. W. Jaffe (f)

UPPER NYACK
G. V. Latham (de)

UPTON
J. C. Cobb (f)
R. Davis, Jr. (f)
O. A. Schaeffer (f)
I. A. Singer (bcdeg)
S. O. Thompson (cefg)

VAIL'S GATE
J. R. Motto (a)

VALHALLA
F. J. Soccy, Jr. (c)

WATERVLIET
D. T. Smith (bh)

WELLSVILLE
A. M. Van Tyne (b)

WESTHAMPTON BEACH
S. B. Cross (e)

WEST NYACK
H. I. Brundage (begh)
G. B. Tirey (abde)

WHITE PLAINS
M. Goldstein (acg)

WILMINGTON
K. Maynard (ce)

WOODMERE
A. W. Wakeling (c)

YONKERS
R. J. Pannuto (ce)

YORKTOWN HEIGHTS
S. Holly (g)
IBM Research Center
G. F. Kaufmann (abdh)

NORTH CAROLINA

ASHEVILLE
H. L. Crutcher (cg)
J. R. DeCoster (c)
W. H. Haggard (c)
W. T. Hodge (cg)
C. E. Hunter (bf)
H. G. Meginnis (g)

BLACK MOUNTAIN
T. R. Smith (g)

CHAPEL HILL
J. R. Butler (f)
D. K. Hamilton (g)
J. W. Harrington (dh)
G. R. MacCarthy (bdfgh)
V. L. Mann (a)
C. M. Weiss (eg)

DURHAM
E. W. Berry (acefg)
W. D. Billings (eg)
K. R. Knoerr (g)

FRANKLIN
A. R. Hibbert (eg)

GOLDSBORO
R. B. Kissinger (abcdefgh)
C. E. Miller (aeg)

RALEIGH
W. H. Bennett (d)
P. C. Doran (abde)
W. E. Forrest (g)
A. V. Hardy (c)
J. O. Kimrey (efg)
C. J. Leith (fh)
J. B. Lutz (g)
E. B. Rice (cg)
J. I. Sewell (eg)
J. Van Schilfgaarde (eg)
E. H. Wiser (eg)

WAYNESVILLE
M. J. Gilbert (eg)

WILLIAMSTON
G. G. Wyrick (g)

WINSTON-SALEM
R. L. Young (abeh)

NORTH DAKOTA

BISMARCK
H. C. McCreery (g)
J. B. Shjeflo (g)

FARGO
L. M. Gangnes (c)
G. E. Wilkinson (g)

GRAND FORKS
J. A. Gievre (eg)
K. A. Madenwald (befg)

TIOGA
C. G. Congdon (abcdefgh)

OHIO

BOWLING GREEN
J. R. Coash (beh)

CHESTERLAND
J. N. Hanson (d)

CINCINNATI
T. W. Bendixen (eg)
E. A. Bradley, S.J. (b)
B. R. Gilcrest (g)
R. H. Hansman (d)
P. A. Humphrey (c)
W. F. Jenks (fh)
H. O. Kruse (cd)
L. M. Laushey (g)
J. P. Lodge, Jr. (c)
F. Pooler, Jr. (c)
W. E. Ray (cg)
C. M. Relyea (c)
D. B. Turner (c)

CLEVELAND
H. F. Birkenhauer, S.J. (bc)
H. P. Donner (aef)
E. J. Walter (bc)

COLUMBUS
R. J. Anderson (de)
E. G. Barron (g)
R. W. Batsche (abh)
B. S. Browzin (g)
J. E. Bugh (eg)
K. S. Curtis (a)
A. d'Audiffret (eg)
R. K. Dodson (g)
J. H. Foster (cg)
W. R. Foster (f)
R. P. Goldthwait (begh)
W. A. Heiskanen (abcdefgh)
R. E. Hess (cdh)
O. H. Jeffers (cg)
E. A. Johnson (ag)
K. E. Kissell (ad)
L. A. Kivioja (a)
F. H. Klaer, Jr. (g)
J. D. Kraus (d)
R. Krieger (g)
T. Krumm (g)
C. A. Lamey (defgh)
R. B. Marston (g)
W. A. Maxey (abd)
G. H. Mayher (bh)
R. I. Mayo (g)
K. W. McClure (a)
A. G. Mourad (abdh)
I. Mueller (ad)
P. M. Pepper (acd)
L. T. Pierce (c)
H. J. Pincus (eh)
H. L. Pree, Jr. (bfg)
G. R. Saini (fg)
J. B. Schreiter (a)
C. B. Sclar (abefh)
A. C. Schofield (ce)
G. R. Smith (eg)
R. C. Smith (egh)
W. L. Smith (defh)
A. M. Spieker (g)
E. M. Spieker (gh)
W. D. Stuart (d)
C. H. Summerson (aefh)
U. A. K. Uotila (abd)
B. S. Vimoke (g)
E. E. Webber (g)
G. E. Wukelic (ed)
C. V. Youngquist (g)

COSHOCTON
F. R. Dreibelbis (g)
L. L. Harrold (g)
J. L. McGuinness (g)

DAYTON
C. C. Chambers (g)
J. H. Fox (abdh)
G. J. Gutman (ce)
G. J. Mistech (abcd)
H. A. Miley (ed)
E. C. St. Clair (ed)

DELAWARE

N. T. Bobrovnikoff (a)
W. P. Cross (eg)
G. H. Crowl (gh)

EAST CLEVELAND
V. M. Blanco (cd)

FINDLAY
Ohio Oil Co.

GRANVILLE
C. E. Graham (bh)
GROVE CITY
S. E. Norris (g)
HILLIARDS
C. L. Hahn (g)
W. H. Lewellen (g)
LOVELAND
J. T. Mitchell, Jr. (g)
LYNDHURST
A. G. Wolff (c)
MT. VERNON
O. S. Adams (a)
NEW PHILADELPHIA
R. Z. Whipkey (g)
OXFORD
J. E. Bever (fh)
REYNOLDSBURG
D. G. Tobin (bh)
SANDUSKY
R. P. Hartley (eg)
J. L. Verber (g)
TIFFIN
L. E. Miller (cd)
TOLEDO
W. H. Miller (c)
VANDALIA
D. J. Roe (g)
WOOSTER
R. B. Curry (cg)
WORTHINGTON
K. R. Everett (cg)
S. H. Laurila (ac)
YELLOW SPRINGS
R. Bieri (c)
M. R. Hunt (cd)

OKLAHOMA

ARDMORE
A. F. Woeber (b)
BARTLESVILLE
R. C. Loring (bh)
R. G. Piety
Phillips Petroleum Co.
K. G. Redman (abcdefgh)
W. H. Smith (abd)
BLACKWELL
F. C. Montgomery (dg)
BROKEN ARROW
R. H. Cartmill (g)
CHICKASHA
M. A. Hartman (g)
R. Schoof (dg)
C. Yost, Jr. (dfgh)
DUNCAN
F. Gouin (acg)
LAWTON
J. E. Buntyn (c)
LINDSAY
W. H. Reeves (bdh)
NORMAN
S. L. Barnes (ceg)
C. J. Bollinger (ceg)
R. L. Inman (c)
I. W. Marine (g)
F. A. Melton (efgh)
J. A. E.-F. Norden (abdefh)
N. H. Ricker (abcdeh)
Y. Sasaki (c)
W. J. Saucier (c)
J. H. Speer (bcegh)
OKLAHOMA CITY
J. Bemrose (ab)
M. B. Berger (g)
J. E. Bucher (bd)
R. Engleman (bh)
C. W. Hewitt (efg)
W. B. Joyner (d)
F. W. Kennon (g)
L. L. Laine (g)
R. R. Moore, Jr. (bf)
J. A. Pruett (cg)
PONCA CITY
W. B. Caro (b)
J. M. Crawford (a)
STILLWATER
H. L. Jones (cd)
W. O. Ree (g)
J. F. Stone (cg)
TULSA
H. A. Ackerman (ah)
M. E. Arnold, Jr. (b)
A. J. Barthelmes (b)
T. J. Bevan (abdfh)
W. T. Born (b)
J. N. Botkin (abc)
F. G. Boucher (abcdeh)
H. L. Brewer (b)
R. A. Broding (be)
P. E. Brown (b)
C. O. Clark (g)
R. C. Coffin (abcdgh)
J. H. Cornish (eg)
W. J. Cunningham (b)
E. M. Davin (bh)
A. R. Denison (beg)
P. A. Dickey (bdh)
K. Dyk (bfh)
W. R. Eckelmann (ef)
J. P. Edge (b)
L. Y. Faust (b)
R. E. Fearon (abd)
J. L. Ferguson (bce)
C. Ferris (abch)
R. S. Finn (b)
J. M. Forgotson, Jr. (h)
G. M. Friedman (f)
Geophysical Research Corp.
A. Gilmour (abdh)
T. J. Greer (b)
W. D. Hayes (b)
W. R. Holway (g)
P. Jacobsen, Jr. (abdh)
L. M. Jeffrey (eg)
V. F. Jennemann (bceh)
Jersey Production Research Co.
P. R. Jones (cg)
V. L. Jones (abdh)
G. C. Kelley (cg)
K. T. Kimball (abfh)
A. J. Kochendorfer (abcde)
J. A. Kornfeld (bdf)
C. C. Lash (bde)
F. K. Levin (b)
A. I. Levorsen (abgh)
R. D. Lynn (b)
P. L. Lyons (abdh)
E. C. Mangold (d)
T. A. Manhart (bd)
S. T. Martner (abdfh)
P. H. Masson (fh)
E. V. McCollum (abh)
A. W. McCoy, III (bfh)
R. N. Meinert
R. W. Mossman (b)
A. N. Murray (beh)
G. R. Newton (f)
C. W. Oliphant (abdh)
J. E. Owen
Pan American Petroleum Corp.
W. B. Perry (abdh)
R. A. Pohly (abcdefgh)
J. J. Roark (b)
B. F. Rummerfield (abdh)
G. D. Schedler (bh)
M. E. Scevit (g)
Seismograph Service Corp.
D. Silverman
H. M. Thralls (b)
S. Treitel (bdh)
S. Von Croy (bd)
R. J. Watson (abedfh)
B. B. Weatherby (bh)
G. H. Westby (bd)
J. R. Winnek (b)
R. A. Wise (b)

OREGON

BAKER
B. O. Nolf (fh)
BEAVERTON
I. D. Allison (cg)
CANNON BEACH
G. H. Canfield (g)
CORVALLIS
C. E. Behlke (g)
L. Boersma (g)
W. V. Burt (ce)
F. W. Decker (cg)
K. Park (ef)
J. G. Pattullo (ce)
D. H. Rosenberg (e)
J. F. Tatom (ce)
EUGENE
B. Crasemann (de)
GRESHAM
H. W. Firman (bg)
IONE
K. J. Smouse (acg)
LA GRANDE
D. M. Bishop (cg)
McMINNVILLE
R. E. Jones (d)
MEDFORD
A. B. Harris (acg)
PENDLETON
G. M. Lee (cf)
PORTLAND
T. C. Adams (ag)
R. T. Beaumont (cg)
N. Bethlahmy (eg)
I. Bloch (g)
P. B. Boyer (eg)
W. A. Brownlie (g)
L. L. Bryan (g)
W. E. Bullard (g)
R. J. Callaway (e)
L. A. Dean (eg)
E. R. de Luccia (bg)
J. H. Dorroh, Jr. (g)
E. G. Dunford (g)
L. B. Dworsky (g)
J. D. Ellis (g)
E. S. Ellison (cg)
E. M. Flaxman (g)
B. L. Foxworthy (g)
W. F. Frost (g)
J. R. Heller (cg)
C. E. Jencks (cg)
W. G. Keesey (bh)
D. W. Kuehl (cg)
L. B. Laird (g)
E. B. Latham (a)
N. H. Leupold (g)
R. J. Lutton (fh)
H. M. McIntyre (cg)
G. R. Meigs (g)
C. E. Mohler (g)
A. Moore (g)
F. Natella (ae)
H. M. Orem (cg)
C. Pedersen (cg)
K. N. Phillips (cg)
A. J. Polos (g)
D. M. Rockwood (cg)
V. P. Schermerhorn (cdg)
J. C. Stevens (g)
J. Summersett, Jr. (g)
M. E. Thoms (g)
H. J. White (acg)
L. B. Willoughby (eg)
R. A. Work (g)
L. L. Young (g)
SALEM
W. S. Bartholomew (g)
P. H. Ortman (eg)
R. L. Purbrick (dh)
J. E. Scevit (g)
THE DALLES
S. C. Sargent (f)
WEST LINN
M. A. Fosberg (c)

PENNSYLVANIA

ALLISON PARK
C. R. Joller (d)
AMBLER
J. W. Mauchly (ed)
AVOCA
R. E. Simmermacher (eg)
BALA-CYNWYD
T. Kaslow (bc)
B. D. Steinberg (e)
BETHLEHEM
K. E. Chave (bef)
A. H. Fretz (ef)
H. R. Gault (fh)
J. D. Haselton (f)
G. R. Jenkins (ceg)
F. T. MacKenzie (e)
T. C. Mentzer (f)
B. Willard (bcefgh)
BLAKESLEE
D. R. Miller (cg)
BOALSBURG
C. F. Sechrist, Jr. (cd)
BRADFORD
E. T. Heck (abdegh)
BRYN MAWR
E. H. Watson (abfh)
BUTLER
F. W. Preston (fh)
CAMP HILL
J. E. Barclay (g)
CANONSBURG
E. L. Sulkowski (bc)
CARNEGIE
S. L. Bear (eg)
CHESTER
A. C. Spengos (cg)
CHESWICK
B. B. Cox (ceegh)
CONESTOGA
E. T. Schuleen (g)
COOPERSTOWN
W. M. Small (ceh)
DARBY
N. Ellis (c)
DAUPHIN
A. M. Lunetta (eg)
DOYLESTOWN
S. M. Longwill (g)
DRAVOSBURG
D. G. McFarland (cd)
EASTON
J. L. Dyson (g)
G. R. Stevens (bdfh)
ELKINS PARK
W. B. Agocs (bd)
H. Jensen (ad)
FAIRLESS HILLS
H. E. Gill (g)
GIBSONIA
J. A. Doutt (b)
GLENSHAW
P. C. Wuenschel (ab)
HARRISBURG
G. D. Bennett (g)
E. J. Coffey, Jr. (c)
L. A. Frakes (abh)
D. B. MacLachlan (h)
C.-S. Shu (acdg)
HATBORO
A. M. Stoll (c)
HAVERTOWN
E. W. Gain (g)
J. W. Karban (cg)
JOHNSTOWN
D. G. Nitch (bc)
KING OF PRUSSIA
M. H. Bengson (c)
B. F. Watson (c)
LAFAYETTE HILLS
L. M. Seavy (g)
LANCASTER
D. U. Wise (defh)
LANSDOWNE
L. B. Corwin (cg)
LEVITTOWN
S. M. Lang (eg)
E. C. Rhodehamel (bcdefgh)
LEWISBURG
G. A. Irland (b)
LOCK HAVEN
H. F. Parker (g)
MALVERN
T. S. Goldsmith (cde)
MEDIA
L. C. Bennett, Jr. (bde)
MILFORD
B. Dunn (g)
NEWTON SQUARE
F. H. Roberts (bh)

OAKMONT
E. A. Eckhardt (abdh)
D. H. Smith (b)

ORELAND
D. P. Miles (d)

PALMERTON
F. F. Fish, Jr. (bh)
R. K. Waring (bd)

PHILADELPHIA
J. A. Baumann (a)
K. L. Coulson (ed)
N. C. Courtney (g)
R. F. Dressler (ceg)
J. T. Dugan (e)
A. W. Friend (cd)
M. G. Holloway (de)
J. G. Kelley (a)
H. Korkes (abe)
L. Krawitz (cdeg)
N. R. Laden (g)
H. Meier (acd)
R. Morgan (eg)
B. F. Santianni (aed)
G. Stallard (c)
S. W. Zygmont (ed)

PITTSBURGH
E. O. Armocida (cg)
L. H. Bailey (ach)
E. L. Beutner (eg)
A. J. Cohen (ef)
E. D'Appolonia (bcefgh)
H. G. Dorsett, Jr. (de)
J. C. Duecker (bcd)
T. A. Elkins (abdh)
L. W. Gardner (bh)
P. S. Goel (f)
R. E. Gray (bg)
Gulf Research & Development Co.
S. Hammer (abdh)
W. E. Hanson (efg)
M. J. Hill (befh)
W. Hoffschwelle (b)
H. L. Hosmer (dfh)
T. P. Kohman (ef)
M. Muskat (bdg)
A. Nadai (bcefh)
L. Nagy (b)
T. J. O'Donnell (abdh)
H. W. Patnode (gh)
L. J. Peters
T. L. Reilly (eg)
O. F. Ritzmann (bdh)
H. Rockwood (eg)
R. E. Rogal (eg)
T. E. Stelson (g)
F. F. H. Wang (abdefgh)
R. D. Wyckoff (bdg)

POCONO MANOR
D. G. Moore, Jr. (f)

RIDGEWAY
J. W. Minteer (e)

ROSEMONT
J. T. C. Yen (gh)

SOUTHAMPTON
G. T. Moore (cd)

STATE COLLEGE
F. L. Blue, Jr. (eg)
L. J. Blumle (d)
H. K. Byers (de)
L. F. Herzog (abdh)
P. M. Lavin (abdfh)
F. H. Licastro (abcdefgh)
R. V. O'Connell (h)
T. D. Scott (d)
F. S. Sechrist (cd)
S. Shulits (ceg)
E. S. C. Smith (bfg)
J. P. Smith (d)
A. H. Waynick (d)
V. Withstandley, III (abcdefgh)

SWARTHMORE
F. C. Alexander, Jr. (ade)
S. P. Duggal (cd)
W. B. Leighton (g)
M. A. Pomerantz (d)

TRAFFORD
F. A. Bender (abcdefgh)

UNIVERSITY PARK
G. M. Aubertin (cg)
A. K. Blackadar (ceg)
S. A. Bowhill (d)
S. Chandra (ed)
C. Crowe (bdh)
R. T. Duquet (ceg)
D. H. Fairfield (d)
P. W. Fletcher (g)
J. W. Greig (bf)
A. Hoffer (defh)
C. L. Hosler (c)
B. F. Howell, Jr. (abcdh)
R. H. Jahns (fgh)
P. W. Johnson (bcdfh)
W. C. Luth (fh)
H. H. Neuberger (bch)
E. F. Osborn (ef)
E. F. Pulver (cd)
W. J. Ross (d)
R. F. Schmalz (efg)
E. R. Schmerling (d)
C. J. Smith (g)
W. E. Sopper (cg)
W. Swider, Jr. (d)
O. F. Tuttle (fh)
W. M. Washington (ce)
B. A. Whisler (g)

UPPER DARBY
G. R. Hall (g)
J. L. Hunt (g)
H. W. Lull (g)

VILLANOVA
L. B. Platt (h)

WALLINGFORD
C. B. Bazzoni (bcdeh)
F. K. Davis, Jr. (c)

WASHINGTON
G. E. McVehil, Jr. (c)
C. L. Mitchell (c)

WAYNE
H. W. Kinnan (c)

WEST CHESTER
C. F. Wicker (g)

WEST PITTSTON
R. C. Gill (be)

WILLIAMSPORT
R. H. Howe (g)

YARDLEY
J. C. Rosenau (cg)

PUERTO RICO

A. Aguilar, Jr. (g)
D. B. Bogart (g)
J. Davila Aponte (def)
W. E. Gordon (cd)
I. G. Grossman (bfh)
R. V. Pizzini (c)
K. W. Richardson (eg)
H. F. Silsby, Jr. (c)
M. Vazquez (bd)
J. D. Weaver (dh)

RHODE ISLAND

EDGEWOOD
C. E. Shaw, Jr. (g)

KINGSTON
F. T. Dietz (be)
W. S. Penhallow (bceg)

NEWPORT
A. J. Drummond (c)
H. W. Greer (c)
D. H. Shonting (e)

PROVIDENCE
C. W. Brown (bcfh)
F. D. Eckelmann (f)
B. J. Giletti (ef)
W. A. Murtaugh, O. P. (bc)
A. W. Quinn (abfgh)

WARWICK
A. C. Chick (bcg)
R. E. Lynde (ce)

WOONSOCKET
N. J. Oliver (d)

SOUTH CAROLINA

AIKEN
C. W. Thorngate (ceg)

CHARLESTON
W. Candrick (eg)
J. A. Cummings (ce)

CHESTER
O. B. Eckhoff (bh)

CLEMSON
T. V. Wilson (g)

COLUMBIA
C. J. Champion, Jr. (eg)
W. W. Evett (g)
H. vonN. Flinsch (ceg)
A. E. Johnson (g)
G. E. Siple (abefg)
S. Taber (bcefgh)
F. W. Wagener (g)

GREENVILLE
E. W. G. Kliemann (c)
C. J. Samuels (c)

SPARTANBURG
J. W. Roehl (g)

SOUTH DAKOTA

BROOKINGS
J. F. Bartholic (eg)
W. F. Lytle (cg)
L. O. Fine (g)
J. R. Runkles (g)

CORSICA
P. J. Breukelman (c)

HURON
L. W. Howells (fg)
J. E. Powell (g)
W. H. Wells (c)

RAPID CITY
W. N. Laval (fh)
H. K. Orr (g)
G. R. Rapp, Jr. (f)
E. L. Tullis (bdgh)

SIOUX FALLS
E. M. Frisby (c)
J. R. Smith (c)

VERMILLION
T. H. Bedwell (cd)
H. D. Carlson (f)
R. E. Stevenson (bf)

TENNESSEE

CHATTANOOGA
J. S. Cragwall, Jr. (g)
N. H. Williams (eg)

ELIZABETHTON
E. S. Daly (g)

KINGSTON
G. G. Kelley (d)

KNOXVILLE
A. Blickensderfer (eg)
B. J. Buehler (eg)
E. E. C. Clebsch (g)
A. J. Cooper (eg)
A. S. Fry (eg)
R. W. Johnson, Jr. (dfh)
B. C. Moneymaker (bg)
D. W. Newton (eg)
J. T. Price (aceg)
E. J. Rutter (g)
F. W. Scott (g)
R. E. Shanks (eg)
J. Smallshaw (eg)
W. M. Snyder (eg)

LOUISVILLE
R. P. Betson (eg)

MEMPHIS
W. H. Banks (ef)
E. M. Cushing (g)
A. L. King (eg)
G. T. Stephens (c)
P-C P. Sun (aceg)

NASHVILLE
H. J. Blazek (g)
R. R. Dickson (eg)
R. S. Lobertini (c)
A. G. Schafer (g)
H. J. Smith (c)
R. G. Stearns (h)
C. W. Wilson, Jr. (a)

NORRIS
R. A. Elder (g)

OAK RIDGE
P. R. Bell (de)
P. H. Carrigan, Jr. (g)
W. M. Culkowski (c)
W. de Laguna (g)
P. R. Guinn (bcdgh)
G. E. Lamale (df)
J. S. Olson (cefg)
R. M. Richardson (dg)

SEWANEE
E. McCrady (bfh)

SIGNAL MT.
C. Wells (g)

TEXAS

AMARILLO
R. C. Barber (bcdfh)
W. R. Jeffries, III (abcdefh)
P. W. Nygreen (befgh)
C. L. Peabody (ce)

ARLINGTON
M. G. Cheney (abdegh)
G. M. Goldberg (a)
R. W. Shrader (ah)

AUSTIN
R. C. Baker (g)
V. E. Barnes (aefh)
H. R. Bentley (cg)
S. D. Breeding (g)
T. E. Bridge (dfh)
F. M. Bullard (ef)
S. E. Clabaugh (fh)
H. N. Clarkson (ab)
J. L. Collins (bce)
J. G. Commons (cg)
J. G. Cronin (abfg)
F. W. Daugherty (fgh)
R. K. DeFord (g)
C. E. Duchon (c)
D. H. Eargle (g)
P. T. Flawn (fh)
J. R. Gerhardt (ce)
E. F. Gloyna (g)
W. H. Goines (g)
W. F. Guyton (g)
W. W. Hardy (abd)
A. A. J. Hoffman (bd)
G. H. Hopkins, Jr. (d)
C. V. Horton (abh)
D. S. Hughes (abeh)
E. Ingerson (fh)
K. F. Keeler (cg)
M. L. Klug (g)
L. B. LaCoste (ab)
E. R. Legrat (g)
L. R. Mack (eg)
W. L. Moore (eg)
C. W. Morgan (acg)
F. J. Morris (d)
W. R. Muehlberger (efgh)
M. A. Nations (cg)
H. S. Ratliff (abcd)
C. B. Reed (b)
H. W. Smith (d)
I. M. Stout (abcdgh)
R. W. Sundstrom (g)
T. Twichell (g)
N. K. Wagner (ce)
C. T. Wellborn (g)
A. G. Winslow (ag)
L. A. Wood (g)
K. Young (ah)

BEAUMONT
S. Aronow (g)
J. W. Millington (abd)
B. E. Richert (d)

BELLAIRE
B. D. Lee (b)
J. R. Moore, III (eh)
H. Ode (h)
Ruska Instrument Corp.
D. C. Van Siclen (ah)

BROWNSVILLE
S. S. Nye (g)

BRYAN
L. R. A. Capurro (e)
R. A. Clark (ceg)
N. F. Keahey (be)
V. E. Moyer (cde)
C. R. Sparger (ce)

CISCO
R. E. Lee (abdfh)

COLLEGE STATION
R. M. Adams (ce)
R. G. Bader (e)
T. K. Bhattacharyya (abd)
H. R. Blank (g)
E. F. Chiburis (abde)
C.-W. Chien (cde)

D. K. Chowdhury (abd)
W. H. Clayton (ce)
J. D. Cochrane (e)
P. Dehlinger (abch)
G. A. Franceschini (ce)
R. D. Gaul (ce)
G. C. Henderson (be)
D. W. Hood (de)
A. M. Kahan (ceg)
A. D. Kirwan, Jr. (eg)
D. F. Leipper (ce)
H. J. McLellan (e)
R. O. Reid (ce)
E. T. Smerdon (eg)
S. H. Yungul (abdh)

CORPUS CHRISTI
B. R. Ammer (bf)
L. B. Clarkson (e)
W. F. Pfennig (b)
J. J. Phillips (b)
W. A. Price (ceg)
F. R. White (abcdefgh)

DALLAS
F. J. Agnich (abd)
C. C. Albritton, Jr. (bfgh)
C. I. Alexander
M. M. Backus (abdefh)
R. G. Baker (b)
K. M. Barry (bd)
L. V. Berkner (cd)
W. D. Black (bh)
R. Bowman (bdh)
J. J. Bradley (b)
S. Bradley (eh)
H. H. Brown (b)
K. E. Burg (abdh)
Chance Vought Corp.
W. C. Chenoweth (abd)
C. G. Dahm (bd)
T. E. Dennis (b)
R. C. Dunlap, Jr. (bce)
J. S. Eyres (bdeh)
F. K. Fisk (abcdgh)
Geotechnical Corp.
J. F. Gilbert (bce)
C. H. Green (b)
E. F. Greene, Jr. (b)
A. H. Halff (g)
J. H. Hamilton (b)
W. D. Hamm (b)
S. N. Heaps (bcd)
W. B. Heroy (abfg)
E. Herrin (b)
W. B. Huckabay (abdef)
F. T. Johnston (h)
F. C. Jonah (d)
M. P. Jones (ab)
G. L. Joyner (abe)
E. R. Kinsley (abd)
S. J. Laster (abce)
R. L. Ludlum (bce)
L. W. MacNaughton (eg)
I. A. Mamantov (b)
R. H. Matthews (b)
R. Mayer, Jr. (bd)
M. D. McCarty (bde)
C. D. McClure (abe)
E. McDermott (bdfh)
E. W. McLemore (bg)
D. A. McNaughton (g)
W. G. Meyer (bh)
W. R. Mitchell (b)
C. Morgan (bef)
E. B. Neitzel (bfh)
R. E. Nelson (abdef)
W. W. Newton (b)
R. W. Olson (bd)
W. E. Oppenheim (efh)
B. J. Patton (d)
H. B. Peacock (abdh)
H. M. Rackets (ab)
R. G. Reakes (b)
D. Renner (b)
R. E. Rettger (abh)
E. D. Riggs (b)
J. F. Rollins (b)
F. E. Romberg (bh)
H. W. Rose (abdh)
E. R. Scott (bcdgh)
G. F. Shepherd (bd)
W. B. Sherman (cd)
R. C. Shopland (b)
M. Smith
Socony Mobil Oil Co.
F. O. Swiggart (ceg)
O. D. Tatsch (bdh)
Texas Instruments Inc.
E. G. Trostel (abdh)
J. K. Van Lopik (abcdefgh)
G. A. Yorbe (bgh)
R. J. Watson (b)
J. J. Welch
E. M. Wilkins (e)
H. F. Williams (e)
H. F. Wise (bh)
J. P. Woods (b)
R. W. Wylie (bd)

DODSON
T. E. Lennon (c)

DUMAS
W. H. Alexander, Jr. (cg)

EL PASO
B. J. Dunn (d)
J. F. Friedkin (g)
E. E. Hamlyn (a)
L. H. Henderson (fgh)
T. E. Henderson (g)
K. R. Jenkins (cd)
H. A. Miranda, Jr. (d)
W. S. Nordquist, Jr. (c)
W. F. Resch (g)
H. S. Slusher (cdh)
G. W. Smith (acg)
E. F. Thompson (c)
W. L. Webb (cdg)

FALLS CITY
J. F. Quinlan, Jr. (efgh)

FORT WORTH
F. L. Aurin (b)
E. L. Burnett (g)
H. B. Drew (ceg)
D. G. Egan (bcdgh)
J. C. Evans (bcfg)
S. W. Freese (cg)
J. C. Harvey (bgh)
K. C. Heald (bd)
L. Hendricks (fh)
H. E. Itten (b)
R. H. Lang (b)
G. L. Lanman (abcefg)
P. H. Ledyard (b)
R. J. MacConnell (eg)
S. B. Maner (g)
C. Miron (g)
J. Morgan (d)
K. V. Speeg (eg)
R. H. Wesley (begh)
M. B. Widess (abcdefgh)
J. H. Wilson (abdh)
W. E. Wood (eg)

GALVESTON
E. H. Brown (g)
J. G. Taylor (ceg)

GARLAND
W. B. Heroy, Jr. (abdh)
L. C. Marshall (deh)

GRAND PRAIRIE
G. R. Temery (acd)

GRAVES
A. F. Wolford (c)

HOUSTON
J. L. Adler (abdfh)
R. B. Anders (cefg)
C. H. Andrews (abcdefgh)
L. T. Barrow (abeg)
E. Baskir (d)
R. B. Baum (b)
O. G. Bell (abce)
M. L. Benke (b)
R. F. Bennett
J. L. Bible (abdh)
B. P. Bishop (d)
J. P. Black (b)
L. W. Blau (bdh)
R. Blumberg (bcdeg)
M. A. Bohannan (b)
T. W. Bonner (d)
A. B. Bryan (abd)
S. E. Buckley (g)
S. H. Buckley
M. J. Carman, Jr. (abdfh)
C.-C. Chang (bdh)
J. E. Chappelear (e)
C. J. Charske, Jr. (b)
J. R. Cornett (b)
H. P. Coster (b)
C. Croneis (cegh)
M. J. Davis (bdh)
J. Cl. de Bremaecker (bh)
M. A. Dillingham (g)
Dresser Electronics
J. H. Dunaway (bc)
C. M. England (bd)
A. W. Engle (abd)
Z. W. Falcone (abcdefgh)
J. B. Farr (b)
C. H. Fay
H. T. Fichter (h)
D. Fink (bdeh)
H. N. Fisk (gh)
T. Flatow (be)
A. Froech (bd)
D. H. Gardner (bh)
J. Geertsma (bh)
Geophysical Associates International
H. R. Gould (efg)
G. S. Hamill, IV (abdfh)
J. W. Handin (abefgh)
M. A. Hanna (eg)
D. R. Haragan (c)
T. J. Harkins (b)
J. T. Hartman (abdh)
D. F. Healy, III (abcdefgh)
D. V. Higgs (fh)
R. C. Hilton (bdh)
L. Horvitz (abd)
L. G. Howell (abd)
F. W. Howells (beh)
K. J. Hsu (fh)
C.-W. Huang (g)
M. K. Hubbert (abdegh)
J. S. Ivy (b)
R. M. Jeffords (g)
R. A. Jenkins (bh)
H. J. Jones (bh)
F. J. Kannenstine (b)
R. F. Kaser (g)
S. Kaufman (b)
R. O. LaRue (b)
E. G. Leonardon (bdfgh)
V. M. Lynch (ad)
G. M. Mace, Jr. (b)
M. R. MacPhail (abdh)
K. G. McCann (b)
B. McCollum (bd)
L. B. McManis (b)
E. T. Miller (bd)
R. D. Miller (bedh)
C. L. Moody (bdfh)
J. D. Moody (befh)
J. L. Morris (bd)
L. M. Mott-Smith (ad)
P. E. Nash (abdefgh)
P. H. Nelson (e)
L. L. Nettleton (abdh)
C. E. Officer (abe)
J. R. Ording (be)
R. N. Ostreim (b)
C. C. Palmer (bcd)
J. W. Phillips (abd)
G. R. Pickett (b)
G. W. Postma (bdh)
B. O. Prescott (bg)
N. B. Proctor (bedfh)
D. Randerson (c)
J. R. Randolph (bh)
R. H. Ray (ab)
V. L. Redding (bch)
M. J. Rieger (abdh)
C. E. Roberts (g)
W. L. Roever (bd)
J. J. W. Rogers (f)
F. W. Rolshausen (egh)
J. H. Rosenbaum (bef)
R. A. Rowland (abgh)
W. E. A. Ruska (d)
W. M. Rust, Jr. (abd)
H. F. Sagocl (abd)
J. H. Sasaeen (bdh)
J. R. Schander (bdh)
H. Schmidt (b)
J. P. Schumacher (abdh)
H. A. Sears (b)
A. J. Seriff (b)
H. W. Shearer (ce)
Shell Development Co.
E. J. Shimek (bcde)
S. E. Sims (ab)
N. D. Smith, Jr. (b)
N. J. Smith (abdeh)
G. B. Somers (bcdh)
G. M. Sowers (fh)
N. C. Steenland (dh)
C. B. Stone (abcdef)
E. F. Stratton (bfh)
R. C. Sweet (abc)
E. F. Taylor (aeh)
J. Taylor (b)
R. E. Taylor (adeg)
M. C. Terry (be)
R. R. Thompson (bd)
C. H. Thurber (b)
M. P. Tixier (bd)
D. P. Venker (befg)
C. B. Vogel (bd)
J. F. Waldron (b)
H. C. Warren (b)
P. Weaver (bdfgh)
J. E. Werner (bedfh)
P. K. Weyl (ef)
G. White (b)
M. Williams (aefh)
A. Wolf (bdh)
S. P. Worden (a)
N. N. Zirbel (bdh)

KILGORE
K. Carter (b)

LAREDO
J. B. Ringwood (g)

LEVELLAND
R. Graf (bh)

LOCKHART
F. W. Wiegand (abd)

LUBBOCK
W. L. Broadhurst (g)
J. G. Dennis (fh)
F. E. Followill (abdh)
E. A. Grimsley (abdf)
R. L. Harris, Jr. (f)
H. V. Hoffman (bd)
H. Klaus (abdh)
B. L. Price (be)
C. C. Reeves, Jr. (f)
D. H. Shurbet (bceh)
F. A. Wade (fgh)

MARLIN
W. Knisel, Jr. (g)

MEXIA
H. D. Holloway (b)

MIDLAND
J. E. Adams (egh)
D. H. Craig (efgh)
J. W. Daly (bd)
S. L. Evans (bef)
J. Gray (bef)
B. R. Haigh (a)
W. E. Hall (abcefh)
D. C. Jolliffe (b)
G. E. Kramer, Jr. (b)
J. H. McElroy (bdh)
M. H. McKinsey (ab)
C. C. Miller (b)
J. W. Miller (b)
J. C. Porter (b)
V. F. Rodgers (f)
W. B. Roper (a)
M. E. Troutle (be)
L. F. Uhrig (abcdh)
E. C. Woodruff (befh)

NEW BRAUNFELS
A. L. Wilkinson (b)

PORT ARANSAS
H. T. Odum (ce)

RICHARDSON
W. D. Gullickson (beg)
J. R. Peterson (bdefh)

SAN ANGELO
J. M. Chipman, III (b)
J. I. Moore (b)

SAN ANTONIO
W. W. Carter, Jr. (b)
J. C. Cook (bd)
R. D. Cox (bf)
J. C. Deal (acg)
J. W. E. Edmonson (abdh)
S. Garza (g)
A. F. Hasbrook (abe)
A. A. Iergins (bh)
E. H. Marx (c)
E. W. Owen (ef)
J. O. Parr, Jr. (abdh)
D. E. Petty (abdeh)
O. S. Petty (abdh)
T. B. Portwood, Jr. (abdh)
D. H. Rowden (befgh)

W. L. Stapp (a)
R. A. Thompson, Jr. (g)

SEGUIN
R. K. Blumberg (b)

SHERMAN
J. E. Wright (bcg)

SUGARLAND
R. L. Sargent (ab)

TEMPLE
R. M. Smith (cfg)

TYLER
J. R. Bunn (h)
J. S. Hudnall (abgh)
G. J. Loetterle (beg)
E. A. Wendlandt (abh)

UVALDE
C. O. Smith (ab)

WACO
R. W. Baird (cg)
T. E. Darby (h)

WESLACO
V. I. Myers (g)
C. L. Wiegand (cg)

WEST COLUMBIA
P. Tackenberg (begh)

WHITE DEER
A. T. Long (bfgh)

WHITEWRIGHT
M. P. Gillett (b)

WICHITA FALLS
T. A. Bradley (bh)
T. B. Stanley, Jr. (ag)

UTAH

BOUNTIFUL
E. L. Peck (cg)

DELTA
R. W. Mower (acg)

LOGAN
J. M. Bagley (cg)
D. L. Chery, Jr. (cdfg)
W. Gardner (gh)
C. T. Hardy (bd)
O. W. Israelsen (g)
D. F. Peterson, Jr. (acg)
S. A. Taylor (g)

MIDVALE
D. L. Bean (b)

MOAB
K. H. Kundert (bdf)
R. R. Latimer (bfh)

MURRAY
I. E. Rittenburg (ae)

OGDEN
R. W. Bailey (g)
G. W. Craddock (g)
A. R. Croft (g)

OREM
R. H. Chapman (adh)

PROVO
D. K. Fuhriman (g)
R. A. Merriam (g)
W. E. Zabriskie (bg)

RICHFIELD
R. A. Young (g)

ST. GEORGE
R. V. Wyman (defgh)

SALT LAKE CITY
T. C. Adams (abcg)
S. T. Algermissen (abdefh)
W. E. Anderson (g)
T. O. Arney (abcdefgh)
T. Arnow (g)
L. J. Bjorklund (g)
R. R. Brewer, Jr. (bdh)
R. E. Cabell (g)
C. M. Chappell (bcd)
F. W. Christiansen (bfh)
K. L. Cook (bdh)
J. K. Costain (abdh)
D. R. Dickson (ce)
A. J. Eardley (h)
R. L. Eddy (c)
M. S. Ginsburg (abce)
A. E. Granger (f)
J. D. Haebig (bd)
D. Hager (h)
J. V. Hales (cdeg)
C. H. Hembree (efg)
W. V. Iorns (g)
S.-K. Kao (c)
W. T. Nightingale (bdfh)
A. W. Pinger (dh)
P. A. Rechard (acg)
J. O. Reeve (g)
V. K. Reid (g)
W. A. Rinehart (bh)
R. M. Robson (abd)
W. L. Stokes (gh)
J. I. Tanis (bdh)
A. O. Taylor (f)
A. Vikane (abefgh)
M. T. Wilson (cg)

VERMONT

BURLINGTON
S. T. Martin (c)
R. M. Ragan (g)
J. A. Root (ag)

DANVILLE
M. L. Johnson (efgh)

EAST RANDOLPH
B. V. Korvin-Kroukovsky (e)

ESSEX JUNCTION
C. G. Doll (h)

MONTPELIER
A. H. Chidester (fh)

NORWICH
R. H. Ragle (ef)

SHELBURNE
H. N. Stapleton (eg)

SOUTH LONDONDERRY
D. T. O'Connell (bcfh)

WEST BRATTLEBORO
J. W. MacArthur (d)

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Analytic Services Inc.
J. K. Angell (c)
R. F. Beers (abdefh)
A. M. Bottoms (e)
D. M. Bowie (cf)
B. G. Brooks (b)
J. E. Caskey, Jr. (ceg)
P. A. Cole
M. J. Colvin, Jr. (b)
C. J. Eiwen (ad)
J. Entel (f)
G. L. Evans, Jr. (bfg)
C. P. Felix (b)
C. O. Fiske (ce)
J. E. Gillis, Jr. (gh)
J. N. Jordan (bh)
G. H. Hickox (g)
R. A. Hoover (c)
R. E. Lapp (d)
H. E. La Gow (aed)
E. F. Le Roux (cg)
R. J. List (c)
R. H. Mansfield (bdh)
B. S. Melton (b)
W. V. Mickey (abdeh)
J. A. Minogue (aceg)
J. R. Moran (bcde)
R. M. Moxham (a)
W. C. Munson (g)
R. H. Nesbitt (abcdefgh)
G. B. Olmsted (cef)
D. Reiser (bdeh)
C. F. Romney (b)
B. W. Shore (d)
M. H. Sipple, Jr. (ceg)
W. M. Smith (cd)
J. C. Tison, Jr. (a)
E. M. Trent (ed)
M. R. Uliom (a)

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D. K. Jenkins (a)
W. W. Romig (ab)
E. H. Rutschkeidt (a)

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L. Alpert (ceg)
H. C. Barksdale (eg)
M. A. Benson (eg)
A. N. Bove (befh)
M. E. Britton (abcdefgh)
G. F. Brown (fg)
W. D. E. Cardwell (g)
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W. T. Collins (eg)
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J. L. Hudson (c)
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H. W. Larsen (abdfgh)
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G. N. Mesnier (cefg)
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C. P. Mook (c)
D. B. Newlin (a)
H. D. Parry (c)
R. S. Quiros (c)
J. K. Searcy (g)
P. A. Siple (ch)
P. A. Smith (ae)
F. F. Snyder (eg)
J. C. Stepp (abd)
L. Thatcher (eg)
E. P. Todd (cd)
S. H. Upham, Jr. (e)
R. C. Vetter (e)
R. B. Vice (g)
F. L. Whedon (edg)
R. O. Williamson (a)
J. E. Woolhiser (e)

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H. M. Morris (egh)
C. E. Sears (abd)

BUCKROE BEACH
C. T. D'Aiutolo (cd)

BURKE
J. W. McGary (ceg)

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N. A. Benfer (e)
J. L. Calver (fg)
J. W. Gambrell (g)
K. E. Hanson (eg)
W. A. Nelson (cdeh)
E. H. Ogilvie (g)
E. C. Stevenson (d)
F. W. Trainer (g)

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A. Bevan (bgh)

CORBIN
J. L. Bottum (bd)
R. E. Gebhardt (bcd)
C. L. Gunn, Jr. (bdfh)
P. J. Taetz (abde)
J. B. Townshend (d)

FAIRFAX
B. Bollerman (aed)
W. B. Foster (ce)
W. L. Mangler (g)
G. B. Massey (eg)
D. E. Nunn (eg)
K. L. Roberts (acg)

FALLS CHUHCH
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G. L. Bowie (cg)
R. W. Carter (eg)
H. L. Croom (cd)
W. H. Geddes (d)
L. C. Gottschalk (bg)
A. R. Green (g)
R. E. Hanson (bcd)
D. B. Kline (c)
L. A. Koffman (g)
L. Lassen (g)
J. W. Lasaiter (abd)
L. Machta (c)
N. A. Matson (c)
R. E. Oltman (g)
A. A. Poling, Jr. (a)
H. C. Riggs (g)
W. J. Schneider (g)
C. F. S. Sharpe (cg)
W. P. Somers (g)
T. S. Southwick (cg)
R. Taggart (e)
J. P. Webber (c)
J. B. Wells (g)
H. Wexler (c)

FORT BELVOIR
W. C. Cude (a)

FREDERICKSBURG
R. W. Kuberry (d)

HAMPTON
J. T. Bradbury (abe)

LANGLEY AFB
N. H. Chavasse (e)
M. C. Ellis (d)
H. W. Hartel (cd)

LEXINGTON
D. K. Jamison (g)
E. W. Spencer (bgh)

MANASSAS
S. Krasnow (abcdefgh)

McLEAN
G. Corwin (fh)
W. C. Griffin (cg)
H. B. Harshbarger (e)
E. W. Hones, Jr. (cd)
I. A. Hunt, Jr. (ceg)
T. H. MacDonald (cd)
M. T. Thomson (g)

MT. VERNON
M. L. Phillips (cd)

NORFOLK
N. P. Addabbo (a)
H. J. Fine (eg)
K. W. Jeffers (adeh)
D. W. Knoll (ceg)
J. F. Miller (cg)
A. L. Morris (cg)
C. A. Palmer (ce)
D. F. Rex (abcegh)

PETERSBURG
H. H. Rasche (c)

PURCELLVILLE
I. E. Gaskill (a)
L. G. Laure (a)

RICHMOND
J. A. Burke, Jr. (be)
E. L. Hockman (abdefgh)
G. F. Kennedy (ae)
S. S. Schworm (cg)
G. S. Sydnor, Jr. (g)
J. F. Wall (c)

SOUTH BOSTON
W. E. Patton (g)

SPRINGFIELD
S. E. Asplund (c)
D. L. Broyles (ah)
C. E. Lee (e)

UPPERVILLE
E. B. Burwell, Jr. (bfgh)

VIENNA
D. G. Anderson (g)
E. F. Ford (eg)
N. A. Frazier (adh)
J. H. Rasmussen (cg)
W. D. Romig (g)
A. J. Steele (c)
W. T. Stuart (g)

WILLIAMSBURG
K. F. Bick (f)

YORKTOWN
R. A. Hord (cd)

VIRGIN ISLANDS

ST. THOMAS
D. Parson, Jr. (cde)

WASHINGTON

BELLEVUE
D. E. Blunt (g)
B. N. Charles (cde)
M. E. Russell (adef)

BILLINGHAM
P. C. Thayer (edegh)

BURTON
P. Billingsley (h)
EAST STANWOOD
I. H. L. Herrigstad (edg)
EPHRATA
E. Nasburg (g)
W. B. Peters (g)
HITSAH
J. T. Shaw (e)
KIRKLAND
A. S. Post (c)
R. H. van Haagen (eg)
MARSHALL
L. L. Oriard (bg)
MERCER ISLAND
Z. F. Danes (abd)
R. T. Gregory (e)
J. M. Saari (df)
OLYMPIA
W. A. G. Bennett (fgh)
R. H. Russell (g)
PASCO
R. E. Brown (fh)
P. P. Rowe (g)
PROSSER
S. J. Mech (g)
PULLMAN
C. L. Barker (eg)
D. L. Bender (g)
H. E. Culver (bcf)
G. H. Dunstan (eg)
W. H. Gardner (g)
D. T. Higgins (g)
J. M. Hoffer (df)
C. C. Lomax (acg)
I. L. Maytin (g)
J. A. Roberson (g)
E. R. Tinney (g)
RENTON
R. L. Mancuso (c)
RICHLAND
L. L. Ames, Jr. (f)
D. J. Brown (afg)
J. L. Fuquay (c)
A. T. Gifford (eg)
D. E. Jenne (eg)
R. W. Nelson (eg)
J. R. Raymond (g)
SEATTLE
J. B. Adams (ef)
L. J. Allen (c)
F. L. Badgley (c)
D. E. Barbarick (c)
H. R. Blank, Jr. (dgh)
C. W. Bowlby (df)
E. C. Brundage (g)
K. Buettner (cdg)
W. F. Burke (bdfh)
T. H. Campbell (g)
J. C. Carhart (ade)
R. J. Chang (eg)
P. E. Church (ceg)
K. C. Clark (d)
L. K. Coachman (e)
J. E. Colcord, Jr. (a)
E. E. Collias (ef)
J. W. Deardorff (e)
C. S. Deehr (d)
H. A. Downs (ceg)
J. E. Erickson (cd)
H. G. Farmer, Jr. (eg)
R. G. Fleagle (ce)
R. H. Fleming (e)
T. C. Foster (ad)
R. E. Fuller (f)
S. P. Gessel (fg)
G. E. Goodspeed (bf)
G. R. Grantham (cg)
M. G. Gross, Jr. (dh)
E. M. Hansen (cd)
A. M. Hanson (ef)
A. E. Harrison (g)
J. W. Higgins (afgh)
W. C. Hoffman (d)
L. C. Johnson (c)
J. J. Kelley, Jr. (cef)
J. F. Kenney (cd)
D. D. Kerlee (cde)
C. A. Knight (efh)
E. R. LaChapelle (g)
H. B. Liemohn (d)
J. H. Lincoln (e)
E. H. Linger (ceg)
J. H. Mackin (g)
M. D. Magnuson (c)
D. R. Makela (cg)
P. M. McLellan (eg)
N. H. Miner (cg)
P. Miach (bh)
M. Miyake (cg)
F. Neumann (abd)
E. C. Nixon (h)
J. C. Noyes (cd)
R. B. Perry (bef)
M. Rattray, Jr. (e)
R. J. Reed (ce)
F. A. Richards (e)
E. P. Richey (cg)
W. Rue (bce)
S. D. Schwarz (bdf)
R. A. Skrinde (cg)
R. C. Staley (ce)
N. L. Stoltenberg (g)
P. T. Taylor (bd)
T. G. Thompson (ceg)
H. O. Westby (g)
SPOKANE
R. O. Cox (e)
C. A. Jackson, Jr. (d)
W. R. Scott (g)
TACOMA
E. G. Bailey (g)
G. L. Bodhaine (g)
D. F. Calkins (g)
A. A. Garrett (g)
F. A. Johnson (cg)
F. F. Lawrence (g)
S. C. Ling (efg)
M. F. Meier (cegh)
F. B. Roberts (cg)
J. A. Roller (g)
W. V. Tangborn (cg)
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I. M. Bissell (c)
B. P. Harper (cg)
L. H. Smith (fh)
VAUGHN
A. V. Leppanen (g)
WALLA WALLA
L. V. Armacost (g)
M. Larson (cg)
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E. J. Rebman (cg)
A. C. Robertson (cg)
WENATCHEE
R. E. Helgeson (g)
YAKIMA
A. D. Peterson (bcdg)

WEST VIRGINIA

BUCKHANNON
P. R. Hickman (efh)
GREEN BANK
G. Reber (d)
HUNTINGTON
G. F. Connell (g)
R. L. Hooser (efh)
MONTGOMERY
V. G. Gabriel (abdefh)
MORGANTOWN
D. E. Donley (eg)
P. H. Price (bc)
D. B. Williamson (c)
PARSONS
A. R. Eschner (g)
K. G. Reinhart (g)

WISCONSIN

APPLETON
A. C. Braun (cg)
L. W. Weis (abcdefgh)
BELOIT
R. H. Breuninger (abcdefgh)
J. D. Swannack (abg)
H. H. Woodard, Jr. (fh)
FORT ATKINSON
R. R. Mayer (a)
GREEN BAY
G. F. Paulu (abcdefgh)
MADISON
J. C. Behrendt (abd)
H. F. Bennett (abdf)
C. R. Bentley (abdeh)
D. J. Black (abdefh)
R. F. Black (gh)
R. H. Brigham (g)
R. A. Bryson (c)
R. H. Bushnell (c)
F. K. Chang (abcdfh)
C. Cook (c)
F. Daniels (f)
T. R. Dosch (g)
W. J. Drescher (g)
J. A. Dutton (ce)
R. C. Emmons (adfh)
A. H. Frazier (ag)
J. G. Georg (c)
J. H. Gillard (c)
L. A. Haskin (f)
R. P. Heidemann (abdefh)
C. L. R. Holt, Jr. (gh)
F. B. House (c)
H. J. Hunt (g)
D. R. Johnson (c)
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A. T. Lenz (cg)
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D. D. Lindberg (cg)
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G. A. Rothfuss (c)
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S. Takasugi (cd)
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J.-Y. Wang (c)
E. M. Wengert (cd)
G. P. Woollard (abd)
K. B. Young (g)
MIDDLETON
D. R. Cline (gh)
MILWAUKEE
I. J. Gilvarry (d)
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E. E. Rexin (bdfg)
J. J. Schwind (abcde)
WAUWATOSA
A. R. Striegl (g)
WILLIAMS BAY
J. W. Chamberlain (d)
Y. Sobouti (d)
L. V. Wallace (d)

WYOMING

CASPER
E. R. Brumbaugh (b)
J. R. Carter (g)
W. H. Fenwick (abdh)
G. L. Haynes (g)
G. W. Peak (g)
R. L. Streeter (g)
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E. D. Gordon (g)
E. B. Jones (cg)
E. Weiss (gh)
CODY
G. S. Buchanan (efh)
LARAMIE
J. C. Bellamy (c)
H. W. Berndt (cg)
D. L. Blackstone, Jr. (bh)
B. Mears, Jr. (g)
R. K. Rasmussen (b)
WORLAND
T. F. Hanly (g)

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(by post offices)

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J. Royce (d)
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G. C. Reid (d)
BOWDEN
G. Fulford (beefh)
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W. E. Blakely (abh)
D. F. Brennan (bdfh)
A. J. Broscoe (g)
E. P. Collier (cg)
S. N. Domenico (bd)
J. D. Hale (bdh)
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E. A. Portfors (g)
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D. H. Tait (bf)
J. P. Verschuren (cg)
K. Vozoff (abdfh)
H. P. Wilson (ce)
E. P. K. Zarudzki (bh)
ERINDALE
J. D. Crone (ad)
ESQUIRRALT
C. S. Wright (d)
FREDERICTON
G. L. Konecny (a)
HAILEYBURY
E. L. MacVeigh (h)
HALIFAX
R. E. Banks (e)
J. E. Blanchard (bd)
H. S. Heaps (eh)
HAMILTON
J. H. Crocket (efh)
R. E. Jones (f)
G. V. Middleton (efgh)
KINGSTON
M. M. Fitzpatrick (abh)
E. E. Watson (e)
KIRKLAND LAKE
J. W. McBean (bdf)

LONDON
A. E. Beck (bdefh)
C. M. Carmichael (d)
D. R. Hay (cd)
J. R. Kramer (f)
R. Mereu (bc)
R. C. Murty (ch)
R. W. Nicholls (d)
R. W. Packer (ceg)
E. G. Pleva (eg)
R. J. Uffen (dfh)

MANOTICK
L. W. Morley (abcdh)

MAPLE
D. V. Anderson (beg)

MONTREAL
E. P. Aikman (e)
R. N. Boucher (g)
D. A. Bradley (fh)
L. Cartier (cg)
G. Chaussé (g)
P. J. Denison (ceg)
H. M. Finlayson (g)
P. G. Gauthier (ab)
J. E. Gill (h)
K. L. S. Gunn (e)
G. Leblanc, S.J. (bg)
G. Marinier (cg)
D. McIntyre (eg)
J. C. Morgan (g)
F. H. Morrison (abcdefgh)
E. R. Pounder (beg)
J. C. Reed (f)
V. Saull (bf)

NANAIMO
V. K. Jain (e)
S. Tabata (cee)
J. P. Tully (ce)
M. Waldichuk (e)

NORANDA
R. J. M. Miller (dfh)

NORTH VANCOUVER
E. D. Dodson (befh)

OAKVILLE
J. W. Kirk (g)

OTTAWA
A. M. Bancroft (bh)
C. S. Beals (a)
T. J. Blachut (ag)
W. M. Cameron (ce)
J. H. Chapman (d)
R. H. Clark (g)
L. S. Collett (fh)
A. E. Collin (e)
F. T. Davies (d)
E. Dawson (bdh)
L. A. Gale (a)
W. J. Heikkila (d)
C. O. Hines (d)
E. R. Hope (dh)
M. J. S. Innes (abdh)
J. Katzman (d)
D. L. Matthews (d)
J. D. McLeod (cg)
J. H. Meek (cde)
J. W. Morrison (abcdefgh)
E. K. Niblett (dh)
M. S Reford (abdh)
E. F. Roots (efh)
D. C. Rose (de)
J. F. Ross (a)
G. W. Sander (be)
P. H. Serson (d)
T. Shimazaki (d)
W. Tupper (f)
B. Van Oort (ab)
K. Witham (d)
G. P. Williams (cg)
S. Ziauddin (d)

PILOT MOUND
B. M. Hammond (cd)

POINT CLAIRE
A. D. Mutch (abcdfgh)

PORT ARTHUR
P. A. Lindberg (dh)

QUEBEC
W. J. Surtees (d)
G. O. Villeneuve (ceg)

RALSTON
G. H. S. Jones (bfh)
E. R. Walker (ceg)

RED DEER
L. N. Ingall (abdh)

REGINA
R. G. Agarwal (bcdefgh)
V. G. Beckie (g)
A. Lissey (g)
G. A. McKay (cg)
S. Osachoff (efgh)

ST. JAMES
S. V. A. Gordon (c)
W. W. Ramsay (g)

SASKATOON
A. R. Byers (h)
R. L. Cognard (d)
B. W. Currie (cd)
P. A. Forsyth (d)
D. H. Hall (bdh)
D. M. Hunten (d)
K. V. Paulson (bd)

TIMMINS
W. A. Jones (dfh)

TORONTO
D. W. Allan (fh)
A. A. Arsja (g)
R. S. Arden (g)
J. B. Boniwell (bdfg)
R. A. Bosschart (bdfh)
R. J. Cook (adefh)
J. B. Currie (bfh)
R. M. Farquhar (dfh)
L. Gilchrist (acd)
D. K. A. Gillies (cg)
G. R. Johnson (adh)
N. B Keevil (bdfg)
G. B. Langford (fgh)
H. T. Lundberg (adh)
P. D. McTaggart-Cowan (c)
A. D. Misener (dh)
K. Mullerbeck (ag)
M. Ozima (df)
P. Price (abdfh)
P.-S. Quan (g)
G. K. Rodgers (de)
H. O. Seigel (abdg)
W. W. Shaw (bdf)
G. F. West (bdfh)
W. R. M. Williamson (b)
J. T. Wilson (h)

URANIUM CITY
P. R. Heenan (abfgh)

VAL D'OR
T. Koulomzine (d)

VANCOUVER
S. H. de Jong (a)
J. A. Jacobs (df)
E. R. Kanasewich (abf)
H. R. Kivisild (bceg)
W. H. Mathews (fg)
A. Nishida (d)
G. L. Pickard (eg)
H. T. Ramsden (g)
R. D. Russell (dfh)
A. Smith (abcdefgh)
T. Watanage (d)
C. D. Webb (cg)

VICTORIA
G. S. Andrews (abeg)
T. A. Link (h)
V. Raudsepp (g)
E. G. Tallman (g)

WATERLOO
H. K. Ellenton (cde)
M. G. Rochester (abd)

WEST VANCOUVER
W. J. Weymark (g)

WILLOWDALE
H. A. Harvey (bcdf)
S. S. Szetu (dfh)
W. G. Wahl (d)

WINDSOR
D. Rankin (d)

WINNIPEG
W. C. Briabin (ah)
N. Mudry (eg)

WOLFVILLE
H. L. Cameron (aefh)
R. H. MacNeill (bdef)
R. H. Magarvey (ce)

YELLOW KNIFE
W. R. A. Baragar (f)

OTHER FOREIGN COUNTRIES
(by countries)

ALGERIA
H. J. Schaetti (eh)

ANGOLA
G. Brognon (df)
O. D. Maurice (df)
S. R. Rokke (b)

ARGENTINA
S. A. Alvarez (bh)
H. L. Copeland (bh)
C. S. Deal (abceh)
G. J. Heinsheimer (g)
R. A. Hernandez (b)
E. Levin (adeh)
R. L. Long (b)
R. Martin (abdeh)
M. G. Mesigos (efh)
R. N. Panzarini (e)
H. H. Perez (eh)
O. Schneider (abcdefgh)
G. Schulz (abcdh)
L. Slaucitajs (deg)
A. O. Solari (d)
J. J. Zunino (abdh)

AUSTRALIA
G. N. Alexander (cg)
G. Baker (abcdefgh)
E. G. Bowen
K. E. Bullen (b)
H. G. Caine (cg)
S. W. Carey (bh)
V. J. Ceplecha (g)
T. G. Chapman (g)
R. Culver (aceg)
A. L. C. Davidson (bg)
A. D. Day (abdh)
J. C. Dooley (abdh)
M. J. Goodspeed (abgh)
D. F. Glynn (g)
T. I. Gray, Jr. (e)
R. Green (adf)
L. T. Guy (ag)
H. S. Hancock (abdfgh)
H. C. Haskew (eg)
L. McN. Hastie (abdfh)
L. V. Hawkins (abdefh)
J. C. Jaeger (bdfh)
P. M. Jeffery (f)
G. L. Kesteven (e)
J. H. Lavery (abcdefgh)
C. H. Munro (g)
G. H. Munro (d)
A. Pattison (cg)
J. R. Philip (cg)
L. S. Prior (abcdefgh)
W. A. Robertson (adf)
N. B. Sauvé (abdh)
E. M. Shepherd (cg)
R. C. Sprigg (h)
L. W. Stach (abeh)
A. G. Steffensen (ab)
D. H. Tarling (defh)
R. F. Thyer (abcdefgh)
G. P. Truscott (g)
J. P. Webb (bh)
D. T. Walsh (g)
R. A. Warner (fgh)
F. W. Wood (bd)

AUSTRIA
V. Fritsch (d)
K. Rinner (a)

AZORES
J. Agostinho (bcdef)

BELGIUM
L. S. Cahen (f)
P.-R. Delvaux (cg)
I. de Magnee (bfh)
P. Evrard (abdfh)
G. A. T. Heyndrickx (g)
M. Nicolet (cd)
L. Ritsema (bfh)
R. Tavernier (eg)
J. Van Mieghem (c)

BOLIVIA
P. Butticaz (bh)
W. J. Koop (abdfh)
N. W. Nerurkar (cdh)

BRAZIL
O. Barbosa (befgh)
R. K. Blankennagel (abdef)
J. G. Cabrera (fh)
N. V. Cordeiro (ceg)
J. de S. Ferraz (cdeg)
L. Gemael (a)
S. V. Guedes (dfgh)
L. W. Koch (g)
C. Machnich (b)
H. Maksoud (g)
I. Penna (abdefgh)
O. Pfafstetter (cefgh)
R. V. Rodriguez (g)
R. M. Sanford (bef)
G. Schwachhein (d)
E. Secades (g)
H. O'R. Sternberg (cefg)
P. S. Stoutjesdyk (abdfgh)
J. R. Warren (bdf)
D. Woo (abcd)
Y. Yeh (g)

BRITISH WEST INDIES
H. O. Phelps (g)
G. R. Robson (bfh)
Y. H. Smitter (aeg)
H. R. Versey (efgh)
S. A. Vincenz (abdgh)

CHILE
E. Arias (cg)
A. M. de Grys (fh)
C. S. Gilman (cg)
C. Lomnitz (abefh)
G. Moore (cg)
G. San, S.J. (bcd)
M. Strabucchi (abdefgh)
P. J. Van Altena (bfh)
A. Vidal C. (g)

CHINA (Taiwan)
Y. B. Dai (eg)
H. V. Darling (g)
S.-t. H. Hsu (aeg)
C.-K. Lee (eg)
S.-C. Lee (acg)
S.-c. Lee (abceg)
R.-J. Sun (g)
H.-J. Tang (g)

CHINA (Mainland)
C.-Y. Fu (abcdefgh)

COLOMBIA
H. C. Cardona (eg)
M. P. Cuellar (bg)
E. W. Gilbert (bef)
P. Z. Kirpich (g)
A. Lopez (cg)
C. A. Munoz (eg)
C. S. Ospina (g)
J. del C. Quintero (ad)
J. E. Ramirez (abch)
F. Wirsner R. (g)

CONGO
E. A. Bernard (eg)

COSTA RICA
F. M. Rudin (adeg)

CUBA
C. F. Berggren (bh)
P. E. Canas-Abril (ce)
J. R. Goberna, S.J. (abcde)
M. E. Rodriguez R. (c)
J. M. Ruiz Miyar (c)
S. Thyssen-Bornemisza (adh)

CZECHOSLOVAKIA
J. Nemec (eg)
V. Steinocher (f)

DENMARK
E. A. Andersen (ab)
I. Lehmann (b)
H. Lundgren (eg)
P. A. Lutz (ce)
B. Peters (ce)
T. Sorgenfrei (g)

EGYPT
El-S. A. El-Samny (g)
A. I. Kashef (g)
M. M. Seddik (g)

EL SALVADOR
R. Schulz (bh)
D. H. Wozab (eg)

ENGLAND
N. N. Ambraseys (beg)
R. C. Anderson (dh)
F. V. Appleby (g)
B. H. Briggs (d)
D. R. Brown (abcdh)
F. W. Brown (d)

E. C. Bullard (abdefh)
E. C. Childs (g)
N. J. Cochrane (bcefgh)
G. M. B. Dobson (cd)
J. P. Dougherty (d)
R. G. J. Fraser (abedeh)
E. W. Frowe (ad)
W. B. Gealy (bfh)
P. G. Harris (bfh)
E. H. Harrison (cd)
P. V. Hodge (abe)
H. Jeffreys (b)
O. T. Jones (h)
B. D. Loncarevic (adh)
L. Z. Makowiecki (abdgh)
M. Mansell-Moullin (abcdefgh)
R. G. Mason (abdefh)
B. J. Moss (bg)
J. E. Nash (g)
H. C. Noltimier (d)
E. R. Oxburgh (bdefh)
O. M. Phillips (ce)
T. T. Randell (abdgh)
J. A. Ratcliffe (d)
A. R. Robbins (a)
G. deQ. Robin (bcegh)
J. C. Rodda (cg)
J. R. Rossiter (eg)
P. H. M. Rothwell (d)
S. K. Runcorn (bcd)
G. Seligman (az)
G. R. Stevenson (d)
R. Stoneley (abceh)
J. V. Sutcliffe (cg)
J. O. Thomas (d)
E. Tillotson (b)
H. W. Underhill (abedefgh)
E. J. P. van der Linden (b)
B. O. Winkler (abdh)
P. O. Wolf (ceg)

FINLAND
P. Eskola
I. Hela (ce)
R. A. Hirvonen (a)
J. Keranen (aed)
T. J. Kukkamaki (a)
E. Niskanen (a)
E. H. Palmen (ce)
V. Väisälä (c)
L. A. Vuorela (e)

FRANCE
M. C. Aynard (b)
G. E. Baboin (bf)
A. V. Baez (d)
A. Bauer (g)
J. W. Butler, Jr. (bdfh)
L. Cagniard (bd)
P. Danel (eg)
P. Debeau (d)
E. M. Fournier d'Albe (ceg)
V. Frolow (g)
G. G. Gibson (b)
J. Goguel (h)
H. Grenet (bd)
R. F. Hagemann (bcdg)
F. Keller, Jr. (abcdfh)
A. J. Kermabon (bde)
L. Lliboutry (g)
J. V. Moore (be)
C. B. Reynolds (bdfh)
H. Schoeller (g)
F. E. Wimbish (ag)
W. S. Wooster (e)

FRENCH WEST AFRICA
J. Metzger (bdefgh)

GABON
M. V. Boelitz (h)

GERMANY
G. Angenheister (bdfgh)
J. Bartels (bcdgh)
B. Bock (d)
W. K. Friedrich (g)
A. Graf (ad)
W. Hiller (b)
H. Hintenberger (f)
H. Israel (ed)
F. R. Jung (g)
W. G. Kertz (bcd)
H. G. Kmoch (cg)
M. Kneissl (a)
W. Krauss (e)
F. Kutscher (d)
H.-W. Maass (bd)
O. Meisser (abdh)
H. J. Menzel (abcdeh)
E. O. Measter (c)
F. Möller (bcdegh)
S. Mueller (abcdegh)
F. Nöring (g)
F. Purzal (d)
K. M. Rawer (d)
F. O. Rossmann (cdegh)
G. H. Solle (fgh)
O. W. Stemmler (b)
F. G. Werner (ad)
R. S. White (d)
F. Wilckens (bcde)
H. Zahringer (f)
H. Zimmer (ef)

GREECE
W. N. Abbott (d)
D. J. Burdon (cdefg)
J. P. Demetriades (acfg)
P. P. Karrapiperis (c)

GUATAMALA
E. G. Albright (b)
F. L. Greene (ef)

HAITI
E. D. Dudley (cg)

ICELAND
G. Bodvarsson (fg)
T. Einarsson (fh)
T. Gudmundsson (bee)

INDIA
H. J. Ajwani (g)
S. C. Awasthi (g)
S. L. Banerjee (bcd)
S. K. Banerji (g)
B. B. Basavaraj (bch)
V. Bhaskara Rao (bdh)
A. P. Bhattacharya (cg)
G. C. Chaterji (abg)
R. D. Dhir (cg)
A. N. Dutta Choudhury (abcg)
M. Gangopadhyaya (c)
S. N. Ghosh (abcdefgh)
B. Janakiramaiah (b)
A. N. Khosla (abcdefgh)
M. S. Krishnan (fh)
A. M. Mani (bcdeg)
M. Manohar (ceg)
A. P. Mitra (d)
B. N. Murthy (acg)
H. Narain (ah)
K. R. Ramanathan (cdeg)
B. S. Rama Rao (abd)
H. S. Rathor (c)
P. V. Sanker Narayan (abdfh)
S. Sen (efh)
H. Singh (abcg)
L. S. Srivastava (b)
V. Subramanyam (g)
P. Talwani (abdfh)
P. H. Vaidyanathan (g)
S. C. Verma (abcdefgh)

INDONESIA
R. Goenarso (c)
I M. Sandy (g)

IRAN
F. A. Afshar (abcdefgh)
J. M. Andrews (bdfh)
M. Fotouhi (b)
N. A. Hempstead (b)
R. F. Kilmartin (bcg)
G. R. Wilson (g)

IRAQ
A. J. Abdullah (ce)
M. S. Hantush (agh)
K. V. Krishnamurthy (cg)
J. O. Palgen (ad)
K. E. Snelson (cg)
A.-G. Sultan (c)

IRELAND
J. C. I. Dooge (g)
J. P. Farrell (g)

ISRAEL
B. Aisenstein (fgh)
I. Alpan (abfg)
D. B. Ashbel (ceh)
A. Eviatar (ed)
S. Irmay (ceg)
Y. Kahana (g)
U. Mane (c)
T. Meidav (bdh)
C. L. Pekeris (abch)
N. Rosenan (ceg)
A. Yevnin (g)
D. Zaslavsky (g)

ITALY
G. Aliverti (ceg)
T. D. Allan (deh)
M. Bossolasco (abd)
A. L. Brown (ae)
P. Caloi (bfg)
G. Cassinis (abd)
J. A. Christensen (be)
A. L. Craig (ceg)
G. L. del Bono (abcdefgh)
G. Dessau (bdh)
C. C. Dilworth (d)
A. Elena (abd)
T. Laevastu (e)
A. Marussi (ah)
J. C. Maxwell (bdfh)
F. Mercogliano (g)
F. Mongelli (abcdefgh)
C. Morelli (abedh)
S. Polli (ce)
A. H. Roger (bg)
P. L. Romita (ceg)
L. Scarsi (d)
R. Selli (befgh)
R. H. Talty (b)
D. Tonini (g)

JAPAN
K. Aki (b)
S.-i. Akimoto (d)
H. Arakawa (bcdeg)
M. Aramaki (cg)
N. Fukushima (d)
T. Hagiwara (bh)
M. Hanzawa (e)
H. Hatakeyama (cdg)
T. Hatanaka (d)
K. Hidaka (ceg)
A. Higashi (cg)
H. Higasinaka (a)
T. Hikosaka (d)
M. Hirono (d)
T. Hirono (abef)
H. Hojo (abcdefgh)
R. Ikegami (b)
K. Kajiura (ceg)
C. Kakuta (ad)
H. Kamiyama (d)
Y. Katsui (f)
K. Kigoshi (f)
T. Kitamura (ed)
Y. Kodaira (cg)
N. Kumagai (a)
M. Kumazawa (bf)
H. Kuno (bf)
K. Kusunoki (ceg)
H. Maeda (d)
Y. Maeda (e)
S. Miyamura (b)
N. Murayama (e)
T. Nagata (bdf)
I. Nakagawa (ahh)
U. Nakaya (cg)
T. Namikawa (d)
T. Obayashi (d)
T. Ogawa (d)
T. Oguti (d)
M. Onda (d)
S. Omote (abf)
T. Ondoh (abedefgh)
G. Onishi (e)
S. Onodera (bdfg)
G. Sai (fg)
K. Sakurai (d)
K. Saruhashi (e)
Y. Sasaki (g)
R. Sawada (c)
T. Sekiguti (cg)
Y. Shimazu (abdfh)
D. Shimozuru (abdh)
A. Suwa (f)
S. Suyehiro (bc)
H. Suzuki (a)
Z. Suzuki (abh)
H. Takahashi (d)
K. Takama (cg)
K. Takano (e)
S. Takayama (g)
H. Takeuchi (abdh)
T. Tamao (d)
K. Tao (d)
Y. Tomoda (a)
C. Tsuboi (abdh)
M. Wada (d)
T. Wada (bfh)
K. Wadati (bc)
D. E. Werts (ac)
K. Yagi (f)
M. Yamamoto (d)
R. Yamamoto (e)
S. Yamamoto (g)
E. Yatsu (g)
I. Yokoyama (bfh)
T. Yonezawa (d)

JORDAN
G. E. Bell (g)
A. L. Huneidi (bc)
S. M. Remington (g)

KENYA
G. D. M. Campbell (cfg)
G. T. Roberts (efg)

KOREA
I. Y. Oh (abf)
S. W. Park (g)
S. Yi (e)

LIBYA
R. D. Bellew (bf)
R. G. Bertagne (bh)
R. L. Bingham (ab)
W. R. Dortch (b)
J. C. Healy (b)
J. H. Nienaber (efg)
A. J. Richardson (abd)
W. A. Schild (bf)
H. Silsmets (abeg)

LUXEMBOURG
R. C. Mitchell (befh)

MADAGASCAR
C. Poisson, S.J. (bd)

MEXICO
A. Acuna O. (ed)
J. Adem (bce)
R. F. Aldredge (f)
M. Alvarez, Jr. (h)
E. H. A. Andrews (abh)
A. R. V. Arellano (fgh)
M. V. Barbe (efg)
G. D. Camp (abdgh)
A. Contreras Arias
E. Cravioto (g)
A. de la O Carreno (bdfg)
G. F. del Villar (ceg)
J. M. Donna (abdh)
S. G. Ferraes (d)
C. Fries, Jr. (f)
A. Garcia-Quintero (cg)
A. R. Geyne (fh)
G. W. Groves (e)
R. Monges Lopez (ad)
M. Medina (a)
G. H. Mcedano (abdg)
M. A. Palacios (bedfgh)
W. E. Snow (d)
A. D. Sollins (a)

MONACO
R. W. Knox (az)

NETHERLANDS
B. Baars (abdh)
H. P. Berlage (bc)
H. H. Brons (bd)
L. E. J. Brouwer (abfh)
B. J. Collette (aeh)
B. de Blank (abh)
G. de Josselin de Jong (g)
D. J. Doeglas (eg)
D. A. Kraijenhoff van de Leur (eg)
P. H. Kuenen (bdefgh)
P. Santema (efg)
J. B. Schijlf (eg)
H. J. Schoemaker (eg)
H. M. E. Schurmann (abcdefgh)
P. Tetrode (cde)
J. Th. Thijsse (eg)
W. VanDijk (ee)
W. R. van Wijk (eg)
F. A. Vening Meinesz
S. W. Visser (bcdh)

NEW GUINEA
G. A. Taylor (beef)

NEW ZEALAND
G. M. Allcock (ed)
C. D. Ellyett (d)
J. B. Gregory (od)
B. H. Olsson (bdh)

E. I. Robertson (bdfh)
I. Simmers (g)
F. E. Studt (abcdefgh)
J. E. Titheridge (d)
C. Toebes (g)
H. W. Ward (abcdefgh)

NICARAGUA
E. G. Gutierrez (ceg)
T. Ponce de Avalos (cd)
C. Rugama (abdfh)

NIGERIA
R. D. Hilliker (b)

NORTH IRELAND
D. R. Bates (d)

NORWAY
T. F. W. Barth (f)
C. L. S. Godske (c)
L. Harang (d)
J. Otnes (cg)
E. Raestad (g)
S. Rosseland (ad)

PAKISTAN
J. N. Bradley (eg)
G. E. Davis (g)
D. W. Fonken (cg)
S. S. Kirmani (g)
S. Mahmud (abcdg)
M. Maasland (g)
J. C. Ringenoldus (cg)
G. A. N. Starmans (cg)
C. M. Umar (g)

PANAMA
B. E. Quate (c)

PERU
M. N. Arca (eg)
J. A. Broggi y Morel (abcdefgh)
A. A. Giesecke, Jr. (bcdh)
D. Keppel (abfh)
P. G. Ledig (bd)
R. I. Lowe, Jr. (g)
F. C. Nieri (abdfh)

PHILIPPINES
C. W. Allen (bdf)
N. P. Badillo (g)
J. W. Gwinn (bf)
T. J. Hennessey, S.J. (bd)
K. W. B. Iten (h)

POLAND
Z. J. Faiklewicz (abdh)

PORTUGAL
C. K. Abecasis (eg)
J. T. da Fonseca Oliveira (abg)
F. Machado (bf)
A. S. Neves (bdgh)

ROUMANIA
L. Constantinescu (ad)

SAUDI ARABIA
M. Akramuzzaman (acg)
S. D. Bowers (abfg)
R. B. Carr (abd)
R. S. Davis (g)
J. H. Evens (bd)
J. H. Hoke (bef)
J. A. McInnis (a)
W. C. Peterson (g)
O. A. Seager (abd)

SCOTLAND
C. P. Davidson (f)

SOUTH AFRICA
J. Berning (abdfh)
B. B. Brock (bdefh)
F. Burdecki (ace)
J. F. Enslin (ad)
P. G. Gane (bd)
A. L. Hales (abdh)
R. J. Kleywegt (abdgh)
R. Leslie (g)
B. D. Maree (abcdefgh)
N. Shand (cg)
A. M. van Wijk (abcd)
J. R. Vegter (bdg)
O. Weiss (abcdefgh)

SOUTHERN RHODESIA
P. H. Havilland (acdfg)
N. W. Hudson (eg)
D. MacDonald (abcdefgh)
R. T. Novotny (abcdefgh)
N. D. Opdyke (dfh)
J. C. Webster (d)

SPAIN
S. Cadavid C. (abcdefgh)
S. N. Daviess (bcefgh)
A. Due, S.J. (abc)
R. Gea J. (dgh)
P. H. Halstead (abdefh)
A. Lopez Arroyo (ab)
E. Rod (h)
R. N. Specht (abd)
H. A. Winkler (b)

SUDAN
S. El Zein (cg)

SWEDEN
M. Bäth (b)
J. Espersen (abdh)
M. Falkenmark (ceg)
D. T. Farley, Jr. (d)
I. Furenlid (ad)
S. Hjelmqvist (bf)
L.-E. Janson (ceg)
G. H. Liljequist (bce)
W. H. Littlewood (e)
F. T. Manheim (af)
K. J. M. Sundquist (g)
E. Tengstrom (ab)
S. G. Tornquist (abdfh)
E. Trygsvason (b)
A. K. Vogel (b)

SWITZERLAND
M. R. de Quervain (g)
F. Gassmann (abdh)
T. Hügi (fg)
E. Jager (f)
H. P. Laubscher (bfh)
R. List (c)
L. Mazurczak (fgh)
W. Moerikofer (c)
K. Parthasarathy (cg)
R. Sanger (cd)
H. J. Tschopp (bdefgh)
M. B. Vuagnat (efh)

SYRIA
M. N. E. Rifai (g)

THAILAND
R. B. Banks (cg)
B. Kanchanalak (cg)
S. Pachimkul (a)
S. Poobrasert (b)
R. W. Revell (g)
V. Suvannus (ad)
C. Vadhanapanich (c)

TUNISIA
J. Tixeront (g)

TURKEY
H. H. Cöntürk (g)
T. M. Dincer (g)
K. Ergin (abdeh)
E. Ilhan (bfgh)
G. O. Nisel (ad)
A. Ozkan (cg)
N. Pinar (bfh)
S. Soydam (g)
S. Toksoz (cg)
E. W. Westrick (bcd)
O. E. Yamanlar (eg)

VENEZUELA
P. G. Aguerrevere (eg)
P. I. Aguerrevere (bdg)
S. E. Aguerrevere (abc)
J. Bolinaga (cg)
W. C. Bridges (efh)
A. Caceres (g)
W. F. Clarke (bd)
P. P. Conrad (abcdegh)
R. Convit G. (cg)
E. E. Cook (be)
K. F. Dallmus (ab)
A. DeKuthy (af)
C. E. Flores Caicano (beg)
A. J. Freile (cg)
T. A. Garrity (be)
D. Geraie (ceg)
J. J. Gschwendtner (cg)
C. C. Jefferson, Jr. (abdefh)
J. F. Judson (b)
L. Kieboom (eh)
T. A. Konigsmark (eh)
T. A. Miller (beg)
A. B. Morrill (eg)
W. H. Murphy (bh)
L. A. Nelson (abdh)
J. H. Pantin (abcdefgh)
S. T. Pees (befgh)
H. H. Renz (deh)
A. W. Ruff (befh)
C. G. Schauble (b)
R. H. T. Schut (bh)
W. R. Smith (f)
W. H. Stalbuth (a)
G. W. Stover (bdh)
O. A. Sucre A. (eg)
H. W. Thoms (eg)
G. W. Trump (abdfh)
J. M. Ward (g)
H. D. Wellman (b)
A. Yanes (eg)
G. A. Young (eh)

YUGOSLAVIA
M. Buljan (efg)
R. Turajlic (ad)

ZANZIBAR
B. E. Bell (ceg)

Union and Section Committees

[These are in the process of formation. The list will be published subsequently in the *Transactions*.]

Council of the Union
- Executive Committee

Standing Committees of the Union
- International Participation
- Statutes and By-Laws
- Membership
- Meetings
- Nominations
- Budget
- Audit

Special Committees and Boards of the Union
- Geophysical and Geological Study of Continents
- Cosmic-Terrestrial Relationships
- Planning Committee for Planetary Sciences
- Award of the William Bowie Medal
- Resolutions
- Education
- John A. Fleming Award in Geomagnetism and Aeronomy
- Tellers
- Study of the Metric System
- Geophysical Abstracting
- Geophysical Data
- Promotion
- Macelwane Award
- Awards Study
- Russian Translation Board
- Geophysical Monograph Board

Regional Committees
- Pacific Northwest Regional Committee
- Pacific Southwest Regional Committee
- Mid-Pacific Regional Committee (Geophysical Society of Hawaii)

Representatives
- National Research Council, Division of Earth Sciences
- National Research Council, Division of Physical Sciences
- National Research Council, Office of Critical Tables
- American Association for the Advancement of Science, Representatives on the Council
- American Geological Institute, Board of Directors and Government Relations Committee
- U. S. National Committee for the International Geophysical Year

Committees of the Sections

Geodesy
- Executive Committee
- International Participation
- Resolutions
- Program
- Nominations

Seismology
- Executive Committee
- International Participation
- Resolutions
- Nominations

Meteorology
- Executive Committee
- International Participation
- Upper Atmosphere
- Atmospheric Diffusion
- Atmospheric Chemistry
- Cloud Physics
- Biometeorology
- Interactions of the Atmosphere with the Sea (joint committee with the Section of Oceanography and the American Meteorological Society)
- Nominations
- Program

Geomagnetism and Aeronomy
- Executive Committee
- International Participation
- Upper Atmosphere
- Rapid Variations
- Space Fields
- Nominations
- Resolutions

Oceanography
- Executive Committee
- International Participation
- Nominations

Volcanology, Geochemistry, and Petrology
- Executive Committee
- International Participation
- Nominations

Hydrology
- Executive Committee
- International Participation
- Program
- Awards
- Nominations
- Permanent Research Committees
  - Precipitation
  - Erosion and Sedimentation
  - Evaporation and Transpiration
  - Surface Water
  - Snow and Ice
  - Glaciers
  - Ground Water

Tectonophysics
- Executive Committee
- International Participation
- Nominations

List of Publications

Transactions

Arrangements have been made with the Johnson Reprint Corp., 111 Fifth Ave., New York 3, N. Y., to reprint back numbers of the *Transactions*, most of which are now out of print. Volumes 1–20 inclusive (except 3 and 5 which were business minutes and were never formally published) have been reprinted and are available (volumes 21–25 available in the fall of 1961), as are the fragmentary back volumes from 1958 and earlier, from the affiliated company, Walter J. Johnson, Inc., at the same address. Below is a complete list of the *Transactions* issued.

*Volume No.**	*Year*	*Title*	*No. pages*	*Price, volume*
1	1920	Transactions (Reprint and Circular Series, National Research Council No. 11)	57	
2	1921	Transactions (Bull. National Research Council, No. 17)	108	
3	1922	Not published	...	
4	1923	Transactions (Bull. NRC, No. 41)	150	
5	1924	Not published	...	
6	1925	Transactions (Bull. NRC, No. 53)	80	
7	1926	Transactions (Bull. NRC, No. 56)	134	
8	1927	Transactions (Bull. NRC, No. 61)	297	
9	1928	Transactions (Bull. NRC, No. 68)	103	
10–11	1929–30	Transactions (all Sections)	314	
12	1931	Transactions (all Sections)	229	
13	1932	Transactions (all Sections)	401	
14	1933	Transactions (all Sections)	521	
15	1934	Transactions Part I (all Sections except Hydrology)	258	
	1934	Transactions Part II (Hydrology)	376	
16	1935	Transactions Part I (all Sections except Hydrology)	364	
	1935	Transactions Part II (Hydrology)	166	
17	1936	Transactions Part I (all Sections except Hydrology)	260	
	1936	Transactions Part II (Hydrology and Regional Meetings, Hydrology)	304	
18	1937	Transactions Part I (all Sections except Hydrology)	264	
	1937	Transactions Part II (Hydrology and Regional Meetings, Hydrology)	300	
19	1938	Transactions Part I (all Sections)	585	
	1938	Transactions Part II (Regional Meetings, Hydrology)	159	
20	1939	Transactions Part I (Regional Meetings, Hydrology)	140	
	1939	Transactions Part II (Symposium on floods)	94	
	1939	Transactions Part III (all Sections except Hydrology)	250	
	1939	Transactions Part IV (Hydrology)	257	
21	1940	Transactions Part I (Stanford University, Regional Meetings, Hydrology)	144	
	1940	Transactions Part II (Washington Annual Meetings, all Sections)	632	
	1940	Transactions Part III (Richmond Symposium and Seattle Regional Meetings, Hydrology)	285	
	1940	Transactions Part IV (Columbus symposia: Applications of mathematics in the Earth sciences and Hydrologic problems in the Ohio and Michigan basins)	86	
22	1941	Transactions Part I (Sacramento Regional Meeting, Hydrology)	216	
	1941	Transactions Part II (Washington Annual Meetings, all Sections except Hydrology)	368	
	1941	Transactions Part III (Washington Annual Meeting, Hydrology)	452	
23	1942	Transactions Part I (Dallas and Pasadena Regional Meetings, Hydrology)	172	
	1942	Transactions Part II (Washington Annual Meetings, all Sections)	570	

(See note near top of this page)

* The first 25 volumes do not carry a volume number in the original publication but do in the reprinted edition. The *year* of the *meeting* reported is the basis for the volume number, though some of the parts carried the following year also as the year of issue.

Volume No.	Year	Title	No. pages	Price, volume
24	1943	Transactions Part I (Washington Annual Meetings, all Sections except Hydrology)	332	
	1943	Transactions Part II (Washington Annual Meeting, Hydrology)	454	
	1943	Transactions Part III (Corvallis Regional Meeting, Hydrology, and Western Snow Conference) and Addendum	105	
25	1944	Transactions Part I (Berkeley Regional Meeting, Hydrology, and Western Snow Conference)	187	
	1944	Transactions Part II (Washington Annual Meeting, General Assembly, Geodesy, Seismology, Minutes of all Meetings)	203	(See note near top of page 1)
	1944	Transactions Part III (Washington Annual Meeting, Meteorology)	138	
	1944	Transactions Part IV (Washington Annual Meeting, Terrestrial Magnetism and Electricity, Oceanography, Volcanology, and Tectonophysics)	142	
	1944	Transactions Part V (Washington Annual Meeting, Hydrology: Reports)	160	
	1944	Transactions Part VI (Washington Annual Meeting, Hydrology: Papers)	236	
		Index, *Transactions*, volumes 1–25 (combined author and subject)	144	$4.00
26	1945	Three bimonthly numbers starting with August	482	
27	1946	Six bimonthly numbers	926	
28	1947	Six bimonthly numbers	980	
29	1948	Six bimonthly numbers	956	
30	1949	Six bimonthly numbers	950	
31	1950	Six bimonthly numbers	968	
32	1951	Six bimonthly numbers	964	
33	1952	Six bimonthly numbers	956	
34	1953	Six bimonthly numbers	986	
35	1954	Six bimonthly numbers	1026	(See note near top of page 1)
36	1955	Six bimonthly numbers	1132	
37	1956	Six bimonthly numbers	812	
38	1957	Six bimonthly numbers	1036	
39	1958	Six bimonthly numbers	1244	
		An index for volumes 26–39, during which period the *Transactions* were issued bimonthly, is being compiled and should be available early in 1962.		
40	1959	Four quarterly numbers, $1.25 each	430	$4.00
41	1960	Four quarterly numbers, $1.25 each	736	4.00
42	1961	Four quarterly numbers, $1.25 each*	400±	4.00

* September 1961 issue, containing membership directory is $2.25. The membership directory is available separately for $1.25.

Journal of Geophysical Research

Beginning with volume 64, for 1959, this publication became a monthly as AGU's prime scientific journal. The available supply of back numbers, 1958 and earlier, are in the hands of Walter J. Johnson, Inc., 111 Fifth Avenue, New York 3, New York.

Volume No.	Year	Title	No. pages	Price, volume
64	1959	Twelve monthly numbers, ranging from $2.00 to $6.00 each	2487	$30.00
65	1960	Twelve monthly numbers, ranging from $4.00 to $6.00 each	4248	42.00
66	1961	Twelve monthly numbers, on subscription	4800±	20.00

For 1962, the subscription rate is $25.00; individual numbers, approximately $4.00 each. Subscriptions on other than the calendar year are at the per-copy rate.

Geophysical Monograph Series

No.	*Year*	*Title*	*No. pages*	*Price, volume*
1	1956	Antarctica in the International Geophysical Year (with 42 x 42 inch map of the Antarctic)	134	$6.00
2	1958	Geophysics and the IGY (papers of June 1957 Symposium)	210	8.00
3	1959	The Atmospheric Chemistry of Chlorine and Sulfur Compounds (papers of Cincinnati Symposium)	129	5.50
4	1959	Contemporary Geodesy (papers of Cambridge Symposium)	95	5.50
5	1960	Physics of Precipitation (papers of Woods Hole Conference, 1959)	435	12.50

Special Publications

Year	*Title*	*No. pages*	*Price*
	Bibliography of Hydrology, United States of America		
(1937)	Years 1935 and 1936	78	$0.60
(1938)	Year 1937	68	0.60
(1939)	Year 1938	78	0.60
(1940)	Year 1939	86	1.70
(1941)	Year 1940	90	1.70
	Years 1941–1950 available through Government Printing Office, Washington, D. C.	408	1.75
	Years 1951–1954 available through Government Printing Office, Washington, D. C.	208	1.25
	List of Members and Officers:		
1959	August 1, 1959 (included in September 1959 Transactions)	120	1.25
1961	August 1, 1961 (included in September 1961 Transactions)	136	1.25

Izvestiya (Bulletin), Academy of Sciences, USSR, Geophysics Series, English edition

Year	*Title*	*No. pages*	*Price, volume*
1957	Twelve monthly numbers, $5.00 each	1843	$25.00
1958	Twelve monthly numbers, $5.00 each	895	25.00
1959	Twelve monthly numbers, $5.00 each	1335	25.00
1960	Twelve monthly numbers, $5.00 each	1260	25.00
1961	Twelve monthly numbers, $5.00 each, on subscription	1400±	25.00

Trudy (Transactions) of the Geophysical Institute in Moscow, English edition

No.	*Title*	*Price*
37	Collected Articles on Dynamic Meteorology, 6″ x 9″, case bound, about 230 pp.	$8.00
38	Isostasy and Isostatic Hypotheses, E. N. Liustikh, 6″ x 9″, case bound, about 150 pp.	6.50
39	Microstructure and macrostructure of elastic waves in one-dimensional continuous non-homogeneous media, B. N. Ivakin, 6″ x 9″, case bound, about 120 pp.	6.00
40	Investigation of the mechanism of earthquakes, O. D. Gotsadze, 6″ x 9″, case bound, about 208 pp.	7.50

Send orders for *Trudy* to Consultants Bureau, 227 West 17th St., New York 11, N. Y. (Commonwealth countries, except Canada, and European countries, send orders to Chapman-Hall, Ltd., London, England.)

Orders, with checks payable to the American Geophysical Union, should be addressed (except in the case of *Trudy*) to

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